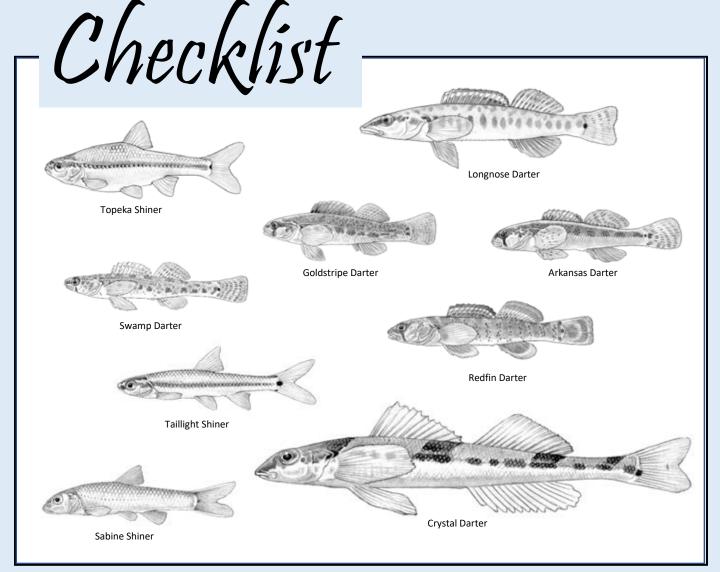
MISSOURI **SPECIES** AND

COMMUNITIES* OF **CONSERVATION CONCERN**



Serving nature and you



Illustrations from Fishes of Missouri, 3rd ed (in prep), by David A. Neely, Ph.D.

JANUARY 2020

CONTENTS

ACKNOWLEDGMENTS	2
INTRODUCTION	3
TERMS AND DEFINITIONS	4
SPECIES CHANGES	8
TERRESTRIAL NATURAL COMMUNITIES	9
THREATENED AND ENDANGERED SPECIES IN MISSOURI	12
SPECIES AND STATUSES LICHENS	14
LIVERWORTS AND HORNWORTS	14
MOSSES	15
FERNS AND FERN ALLIES	18
FLOWERING PLANTS	19
FLATWORMS	31
MOLLUSKS	32
ARACHNIDS	33
CRUSTACEANS	33
MILLIPEDES	34
INSECTS	35
FISH	38
AMPHIBIANS	39
REPTILES	39
BIRDS (See Appendix A for tracking criteria)	40
MAMMALS	41
REFERENCES	43
FOR MORE INFORMATION (including Webpage and Citation)	47
APPENDIX A: BIRD SPECIES TRACKED IN MONHP AND THEIR CRITERIA FOR EOS	48
PLANTS OF CONSERVATION CONCERN REPORTING FORM	50
ANIMALS OF CONSERVATION CONCERN REPORTING FORM	51
TERRESTRIAL NATURAL COMMUNITY REPORTING FORM	52
AQUATIC NATURAL COMMUNITY REPORTING FORM	53

ACKNOWLEDGMENTS

The following individuals contributed to the development of this document: Bruce Allen (Missouri Botanical Garden-MOBOT), Mike Arduser (Missouri Department of Conservation-MDC-retired), John Atwood (MOBOT), Alan Brant, John Brinda (MOBOT), Jeff Briggler (MDC), Malissa Briggler (MDC), Christopher Brown (Monsanto), Steve Buback (MDC), Dorothy Butler (MDC), Rick Clawson (MDC-retired), Bob DiStefano (MDC), Bill Elliott (MDC-retired), Tony Elliott (MDC), Randy Evans (MDC), Debby Fantz (MDC), Susan Farrington (MDC), Dennis Figg (MDC-retired), Jane Fitzgerald (Partners In Flight), Matt Gompper (University of Missouri - Columbia), Lonnie Hansen (MDC-retired), Janet Haslerig (MDC), Nels Holmberg (MOBOT), Peggy Horner (Ozark Regional Land Trust), Bob Hrabik (MDC), Vicki Jackson (University of Central Oklahoma), Brad Jacobs (MDC-retired), Tom Johnson (MDC-retired), Harold Kerns (MDC-retired), Dave Knuth (MDC), Phil Koenig, Jeff Koppelman (MDC-retired), Doug Ladd (The Nature Conservancy), Mike Leahy (MDC), Bill Mabee (MDC), Ted MacRae (Monsanto), Paul McKenzie (U.S. Fish and Wildlife Service-USFWS), Stephen McMurray (MDC), Elizabeth Middleton (MDC), Tim Nigh (MDC-retired), Doug Novinger (MDC), Elizabeth Olson (MDC), William Pflieger (MDC-retired), Barry Poulton (U.S. Geological Survey), Lynn Robbins (Missouri State University-retired), Randy Sarver (Department of Natural Resources), John Scheibe (Southeast Missouri State University), Tim Smith (MDC-retired), Janet Sternburg (MDC), Bill Summers, Richard Thoma (Monsanto-retired), Justin Thomas (NatureCITE), James Trager (MOBOT, Shaw Nature Reserve), Jacob Westhoff (MDC), Kathryn Womack (MDC), George Yatskievych (UT Austin).

NOTICE: Please submit reports of all sightings of species and natural communities listed in this checklist on the forms provided in the back of this checklist. Special criteria apply to birds and reports should follow the guidelines listed in Appendix A.

INTRODUCTION

The Missouri Department of Conservation (MDC) is charged with the protection and management of Missouri's fish, forest, and wildlife resources. In the brief time since the settlement of Missouri, many plants and animals have declined to levels of concern and some have disappeared entirely. The species cataloged in this checklist represent 18 percent of the native vascular plants, 14 percent of the nonvascular plants, 28 percent of the vertebrate animals, and an unknown percentage of the native invertebrate species in Missouri. Together, the animals, plants, and natural communities represent Missouri's biological diversity—a natural heritage worth protecting.

The Department maintains two references relating to the status of listed plants and animals in Missouri: the *Missouri Species and Communities of Conservation Concern Checklist* (*Checklist*) and the *Wildlife Code of Missouri* (*Code*). The *Checklist* is used mainly for planning and communication purposes. All native animal species in the State of Missouri are protected as biological diversity elements unless a method of legal harvest, harm or take is described in the *Code*. All native plant species in the State of Missouri are protected as biological diversity elements only on land owned by the Missouri Department of Conservation. Species listed in the *Code* under 3 CSR 10-4.111 and all federally listed endangered and threatened plants and animals protected by the Endangered Species Act of 1973 (ESA) are protected by the State Endangered Species Law 252.240. Some additional plants and animals in this *Checklist* also appear in the *Code* and are afforded special legal protection.

How to use the checklist

The checklist, developed with the cooperation of specialists throughout the state, is a list of plants, animals, and natural communities that MDC is particularly concerned about due to population declines or apparent vulnerability. The global and state ranks indicate the level of concern for each Element's (i.e., a species or type of natural community) continued existence throughout its range and in Missouri, respectively. Global ranks are assigned by the Natural Heritage/Conservation Data Center personnel and/or NatureServe. State Ranks in Missouri are assigned by the Missouri Natural Heritage Program within the Missouri Department of Conservation.

The Global and State Ranking System methodology was developed and provided by The Nature Conservancy, Conservation Science Division, in association with the Network of Natural Heritage Programs and Conservation Data Centers.

The checklist is arranged by broad taxonomic groups (e.g., terrestrial natural communities, flowering plants, insects, fish, and mammals). Within each group, species are arranged alphabetically by their scientific names and terrestrial natural communities by community type. Each Element is identified by its scientific name, common name, state rank, global rank, state status, and federal status.

TERMS AND DEFINITIONS

FEDERAL STATUS

The federal status is derived from the provisions of the Endangered Species Act of 1973, as amended, which is administered by the U.S. Fish and Wildlife Service (USFWS). Passage of the Endangered Species Act of 1973 gave the United States one of the most important laws ever enacted by any country to prevent the extinction of imperiled animals and plants. Protecting endangered and threatened species and restoring them to the condition where their existence is no longer jeopardized is the primary objective of the USFWS Endangered Species Program.

E: Endange red: Any species which is in danger of extinction throughout all or a significant portion of its range.

T: Threatened: Any species which is likely to become endangered within the foreseeable future.

C: Candidate: Plants or animals which USFWS is reviewing for possible addition to the list of endangered and threatened species.

PE: Proposed Endangered: Species officially proposed for listing as endangered; final ruling not yet made.

PT: Proposed Threatened: Species officially proposed for listing as threatened; final ruling not yet made.

SAT: Threatened due to similarity of appearance: Species is listed for its protection due to similarity of appearance with another listed species. Species listed as SAT are not biologically threatened.

STATE STATUS

Rule 3CSR10-4.111 of the Wildlife Code of Missouri and certain state statutes apply to state Code-listed species.

E: Endange red: Determined by MDC under constitutional authority.

GLOBAL RANK (GRANK)

Global ranks are assigned and maintained by the Natural Heritage/Conservation Data Center and/or NatureServe. A numeric rank (G1 through G5) of relative imperilment based on standard rank factors:

- the estimated number of Element Occurrences (EOs) throughout the Element's global, national, or subnational range;
- the estimated numbers of those EOs with good viability;
- the estimated abundance of the Element (measured in terms of population for species Elements as well as occupied area or linear distance for both species and communities);
- the estimated size of the Element's range;
- the short- and long-term trends in the Element's distribution over its range;
- the estimated number of adequately protected EOs throughout the Element's range globally, nationally, or subnationally;
- the scope, severity, and immediacy of threats to the Element;
- the vulnerability of the Element to intrusion; and
- the specificity of the Element's environmental requirements.

GLOBAL RANK (Cont.)

G1: Critically Imperiled: At very high risk of extinction or elimination due to extreme rarity, very steep declines, or other factors.

G2: Imperiled: At high risk of extinction or elimination due to very restricted range, very few populations or occurrences, steep declines, or other factors.

G3: Vulnerable: At moderate risk of extinction or elimination due to a restricted range, relatively few populations or occurrences, recent and widespread declines, or other factors.

G4: Apparently Secure: Uncommon but not rare; some cause for long-term concern due to declines or other factors.

G5: Secure: Common; widespread and abundant.

G#G#: Range Rank: A numeric range rank (e.g., G2G3) is used to indicate uncertainty about the exact status of a taxon. Ranges cannot skip more than two ranks (e.g., GU should be used rather than G1G4).

GU: Unrankable: Currently unrankable due to lack of information or due to substantially conflicting information about status or trends. Note: Whenever possible (when the range of uncertainty is three consecutive ranks or less), a range rank (e.g., G2G3) should be used to delineate the limits (range) of uncertainty.

GNR: Unranked: Global rank not yet assessed.

GH: Possibly Extinct: Known from only historical occurrences but still some hope of rediscovery. There is evidence that the species may be extinct but not enough to state this with certainty. Examples of such evidence include (1) that a species has not been documented in approximately 20-40 years despite some searching or some evidence of significant habitat loss or degradation; and (2) that a species has been searched for unsuccessfully, but not thoroughly enough to presume that it is extinct.

GX: Presumed Extinct: Not located despite intensive searches and virtually no likelihood of rediscovery.

SUBRANK:

T#: Infraspecific Taxon (binomial): Rank applies to a subspecies or variety. Rules for assigning Tranks follow the same principles outlined above.

QUALIFIERS:

?: Inexact Numeric Rank: Denotes inexact numeric rank; it is not used in combination with range ranks, GH, or GX.

Q: Questionable Taxonomy: Distinctiveness of this entity as a taxon at the current level is questionable; resolution of this uncertainty may result in change from a species to a subspecies or hybrid, inclusion of this taxon in another taxon, with the resulting taxon having a lower-priority (numerically higher) conservation status rank.

STATE RANK

Assigning national and subnational conservation status ranks for species and ecosystems (ecological communities and systems) follows the same general principles as used in assigning global status ranks. Subnational ranks are assigned and maintained by the Missouri Natural Heritage Program (MONHP).

S1: Critically Imperiled: Critically imperiled in the state because of extreme rarity or because of some factor(s) such as very steep declines making it especially vulnerable to extirpation from the state.

S2: Imperiled: Imperiled in the state because of rarity due to very restricted range, very few populations or occurrences, steep declines, or other factors making it very vulnerable to extirpation from the state.

S3: Vulnerable: Vulnerable in the state due to a restricted range, relatively few populations or occurrences, recent and widespread declines, or other factors making it vulnerable to extirpation.

S4: Apparently Secure: Uncommon but not rare; some cause for long-term concern due to declines or other factors.

S5: Secure: Common, widespread, and abundant in the state.

S#S#: Range Rank: A numeric range rank (e.g., S2S3) is used to indicate any range of uncertainty about the status of the species. Ranges cannot skip more than two ranks (e.g., SU is used rather than S1S4).

SU: Unrankable: Currently unrankable due to lack of information or due to substantially conflicting information about status or trends.

S?: Unranked: State rank not yet assessed.

SE: Exotic: An exotic established in the state; may be native in nearby regions (e.g., house finch or catalpa in eastern U.S.).

SA: Accidental: Accidental or casual in the state, in other words, infrequent and outside its usual range. Includes species (usually birds or butterflies) recorded once or only a few times at a location. A few of these species may have bred on the one or two occasions they were recorded. Examples include European strays or western birds on the East Coast and vice-versa.

SP: Potential: Potential that the species occurs in the state, but no extant or historic occurrences are accepted.

SR: Reported: Species reported in the state but without a basis for either accepting or rejecting the report, or the report not yet reviewed locally. Some of these are very recent discoveries for which the Program has not yet received first-hand information; others are old, obscure reports.

SRF: Reported Falsely: Species erroneously reported in the state and the error has persisted in the literature.

STATE RANK (Cont.)

SH: Possibly Extirpated: Known from only historical records but still some hope of rediscovery. There is evidence that the species may no longer be present in the state, but not enough information to state this with certainty. Examples of such evidence include (1) that a species has not been documented in approximately 20-40 years despite some searching or some evidence of significant habitat loss or degradation; and (2) that a species has been searched for unsuccessfully, but not thoroughly enough to presume that it is no longer present in the state.

SX: Presumed Extirpated: Species is believed to be extirpated from the state. Not located despite intensive searches of historical sites and other appropriate habitat, and virtually no likelihood that it will be rediscovered.

QUALIFIERS:

?: Inexact or Uncertain: Denotes inexact or uncertain rank; this should not be used with range ranks, SH, or SX.

SPECIES CHANGES

STATUS CHANGES CRUSTACEANS

Faxonius eupunctus (Coldwater Crayfish) as State Endangered.

Faxonius roberti (Spring River Crayfish) as State Endangered.

AMPHIBIANS

Cryptobranchus alleganiensis alleganiensis (Eastern Hellbender) to federal Proposed Endangered. On 03 April 2019, the U.S. Fish & Wildlife Service 12-month finding document proposed to list Missouri's populations of the Eastern Hellbenders as Endangered. Final ruling should occur in the spring 2020.

ADDITIONS

CRUSTACEANS

Faxonius wagneri (Eleven Point River Crayfish) as S1.

TAXONOMIC CHANGES

LICHENS

Parmotrema madagascariaceum to Parmotrema xanthinum (A Lichen).

LIVERWORTS AND HORNWORTS

Kurzia setacea to Kurzia pauciflora (A Liverwort).

FLATWORMS

Macrocotyla glandulosa to Kenkia glandulosa (Pink Planarian).

CRUSTACEANS

CORRECTION: A recent global evaluation of crayfish taxonomy and nomenclature (Crandall and De Graves 2017) resulted in all Missouri crayfishes in the genus *Orconectes* being reclassified to the genus *Faxonius* except *Orconectes* stygocaneyi (Caney Mountain Cave Crayfish).

TERRESTRIAL NATURAL COMMUNITIES

In addition to lichens, plants, and animals, the MONHP tracks occurrences of high quality natural communities. Terrestrial natural communities are interrelated assemblages of plants, animals, and other living organisms incorporated into their physical surroundings- including geologic substrate, soils, topography and aspect - that are shaped by climate and other natural processes. High quality sites are ones that provide diverse assemblages of native species and represent the least distressed examples of ecosystems that existed in Missouri prior to European settlement. These natural communities frequently provide the habitat necessary for Missouri's listed lichens, plants, and animals. Examples of high-quality aquatic natural communities are included in the MONHP, although SRANKs have not been assigned to individual aquatic natural community types. Because MDC tracks occurrences of high quality natural communities, we encourage the submission of site information on natural communities as we do for species listed in this Checklist.

State ranks are assigned to natural communities using criteria that are similar to species SRANKs. Criteria include total number of occurrences, number of occurrences by grade [A-D], total acres, number of counties in which the community type occurs, number of protected occurrences, and threats. Global ranks are not applied to communities due to the difficulty in reconciling Missouri's classification system with larger scale classifications.

Natural community types have been classified using *The Terrestrial Natural Communities of Missouri* (Nelson, 2005). This classification system was developed to accomplish an inventory of the state's natural communities, prioritized by quality, size and distribution, to help meet land protection goals. The terrestrial natural communities tracked in MONHP (high-quality examples) are listed below with their SRANKs by major community type.

COMMUNITY TYPE

FOREST	SRANK
Dry-Mesic Loess/Glacial Till Forest	S 3
Mesic Loess/Glacial Till Forest	S 3
Dry-Mesic Limestone/Dolomite Forest	S3
Mesic Limestone/Dolomite Forest	S 3
Dry-Mesic Chert Forest	S4
Dry-Mesic Sandstone Forest	S 3
Mesic Sandstone Forest	S2
Dry-Mesic Sand Forest	S 1
Mesic Sand Forest	S 1
Dry-Mesic Igneous Forest	S4
Dry-Mesic Bottomland Forest	S3
Mesic Bottomland Forest	S2
Wet-Mesic Bottomland Forest	S2
Wet Bottomland Forest	S 3
Riverfront Forest	S4
Total Forest Types:	15

WOODLAND	<u>SRANK</u>
Dry Loess/Glacial Till Woodland	S3
Dry-Mesic Loess/Glacial Till Woodland	S3
Dry Limestone/Dolomite Woodland	S 3
Dry-Mesic Limestone/Dolomite Woodland	S 3
Dry Chert Woodland	S4
Dry-Mesic Chert Woodland	S4
Dry Sandstone Woodland	S 3
Dry-Mesic Sandstone Woodland	S 3
Dry Sand Woodland	S 1
Dry-Mesic Sand Woodland	S2
Dry Igneous Woodland	S4
Dry-Mesic Igneous Woodland	S4
Upland Flatwoods	S2
Bottomland Flatwoods	S 1
Sinkhole Flatwoods	S2
Dry-Mesic Bottomland Woodland	S2
Mesic Bottomland Woodland	SH
Wet-Mesic Bottomland Woodland	S 1
Total Woodland Types:	18
SAVANNA	<u>SRANK</u>
Dry-Mesic Loess/Glacial Till Savanna	<u>S1111 (11</u>
Mesic Loess/Glacial Till Savanna	SH
Limestone/Dolomite Savanna	SH
Chert Savanna	SH
Sandstone/Shale Sayanna	SH
Sand Savanna	S11
Total Savanna Types:	6
10th Suramu 1 ypes.	U

SRANK PRAIRIE

Dry Loess/Glacial Till Prairie	S2
Dry-Mesic Loess/Glacial Till Prairie	S 1
Mesic Loess/Glacial Till Prairie	S 1
Dry Limestone/Dolomite Prairie	S2
Dry-Mesic Limestone/Dolomite Prairie	S2
Dry-Mesic Chert Prairie	S 3
Dry-Mesic Sandstone/Shale Prairie	S 3
Sand Prairie	S 1
Prairie Swale	S2
Hardpan Prairie	S2
Wet-Mesic Bottomland Prairie	S 1
Wet Bottomland Prairie	S 1
Total Prairie Types:	12

GLADE	SRANK
Limestone Glade	$\overline{S2}$
Dolomite Glade	S 3
Chert Glade	S2
Sandstone Glade	S2
Igneous Glade	S 3
Total Glade Types:	5

CLIFF/TALUS	<u>SRANK</u>
Dry Limestone/Dolomite Cliff	S 5
Moist Limestone/Dolomite Cliff	S4
Dry Sandstone Cliff	S4
Moist Sandstone Cliff	S 3
Dry Chert Cliff	S 3
Moist Chert Cliff	S2
Dry Igneous Cliff	S4
Moist Igneous Cliff	S4
Unconsolidated Bluff	S 3
Limestone/Dolomite Talus	S4
Igneous Talus	S4
Total Cliff/Talus Types:	11

STREAM EDGESRANKSand BarS3Gravel WashS3Stream Bank/River BankS2Total Stream Edge Types:3

WETLAND	SRANK
Marsh	S2
Shrub Swamp	S2
Swamp	S 1
Pond Marsh	S 1
Pond Shrub Swamp	S2
Pond Swamp	S 1
Ozark Fen	S2
Prairie Fen	S2
Forested Fen	S2
Glacial Fen	S 1
Acid Seep	S2
Saline Seep	S 1
Limestone/Dolomite Spring	S 3
Total Wetland Types:	13

CAVE	SRANK
Aquatic Cave	S4
Terrestrial Cave	S4
Total Cave Types:	2
Total Terrestrial Natural Communities:	85

THREATENED AND ENDANGERED SPECIES IN MISSOURI

SCIENTIFIC NAME PLANTS	COMMON NAME STATUS		FEDERAL <u>STATUS</u>
Asclepias meadii	Mead's Milkweed	Endangered	Threatened
Boltonia decurrens	Decurrent False Aster	Endangered	Threatened
Geocarpon minimum	Geocarpon	Endangered	Threatened
Heleniumvirginicum	Virginia Sneezeweed	Endangered	Threatened
Is otria medeoloides	Small Whorled Pogonia*	Endangered	Threatened
Lindera melis sifolia	Pondberry	Endangered	Endangered
Physaria filiformis	Missouri Bladderpod	Endangered	Threatened
Platanthera leucophaea	Eastern Prairie Fringed Orchid*	Endangered	Threatened
Platanthera praeclara	Western Prairie Fringed Orchid	Endangered	Threatened
Trifolium stoloniferum	Running Buffalo Clover	Endangered	Endangered
MOLLEGIZO	Č	C	
MOLLUSKS	Climan and all Marcal	F., 4., 4	
Alas midonta viridis Antrobia culveri	Slippershell Mussel	Endangered	F., 4
	Tumbling Creek Cavesnail	Endangered	Endangered
Elliptio crassidens	Elephantear	Endangered	г 1 1
Epioblasma curtisii	Curtis Pearlymus sel	Endangered	Endangered
Epioblas ma triquetra	Snuffbox	Endangered	Endangered
Lampsilis abrupta	Pink Mucket	Endangered	Endangered
Lampsilis higginsii	Higgins Eye	Endangered	Endangered
Lampsilis rafines queana	Neosho Mucket	Endangered	Endangered
Leptodea leptodon	Scaleshell	Endangered	Endangered
Margaritifera monodonta	Spectaclecase	Endangered	Endangered
Plethobasus cyphyus	Sheepnose Fat Pocketbook	Endangered	Endangered
Potamilus capax		Endangered	Endangered
Quadrula fragosa	Winged Mapleleaf	Endangered	Endangered
Reginaia ebenus	Ebonyshell	Endangered	
Simpsonaias ambigua	Salamander Mussel	Endangered	Thurstoned
Theliderma cylindrica	Rabbitsfoot	Endangered	Threatened
CRUSTACEANS			
Cambarus aculabrum	Benton County Cave Crayfish		Endangered
Faxonius eupunctus	Coldwater Crayfish	Endangered	
Faxonius roberti	Spring River Crayfish	Endangered	
INSECTS			
Bombus affinis	Rusty Patch Bumblebee		Endangered
Nicrophorus americanus	American Burying Beetle*	Endangered	Endangered
Papaipema eryngii	Rattles nake-master Borer Moth		Candidate
Somatochlora hineana	Hine's Emerald	Endangered	Endangered
FISH			
Acipenser fulvescens	Lake Sturgeon	Endangered	
Cottus specus	Grotto Sculpin		Endangered
Crystallaria asprella	Crystal Darter	Endangered	
Etheostoma fusiforme	Swamp Darter	Endangered	
Etheostoma histrio	Harlequin Darter	Endangered	
Etheostoma nianguae	Niangua Darter	Endangered	Threatened
Etheostoma parvipinne	Goldstripe Darter	Endangered	

S CHENITETIC NIANTE	COMMON NAME	STATE <u>STATUS</u>	FEDERAL STATUS
SCIENTIFIC NAME	COMMON NAME	STATES	STATUS
FISH (Cont.)	Dadfin Donton	En don consid	
Etheostoma whipplei	Redfin Darter	Endangered	
Forbesichthys agassizii	Spring Cavefish	Endangered	
Hybognathus hayi	Cypress Minnow	Endangered	
Notropis maculatus	Taillight Shiner Sabine Shiner	Endangered	
Notropis sabinae		Endangered	Endongonad
Notropis topeka Noturus eleutherus	Topeka Shiner	Endangered	Endangered
	Mountain Madtom Neosho Madtom	Endangered	Thurstoned
Noturus placidus Percina nas uta		Endangered	Threatened
	Longnose Darter Flathead Chub	Endangered Endangered	
Platygobio gracilis		Endangered	Endangarad
Scaphirhynchus albus	Pallid Sturgeon	Endangered	Endangered Threatened/SA
Scaphirhynchus platorynchus	Shovelnose Sturgeon Ozark Cavefish	En don consid	
Troglichthys rosae Umbra limi		Endangered	Threatened
Omora iimi	Central Mudminnow	Endangered	
AMPHIBIANS			
Cryptobranchus a. alleganiensis	Eastern Hellbender	Endangered	Proposed Endangered
Cryptobranchus a. bishopi	Ozark Hellbender	Endangered	Endangered
or y processions and or supply			
REPTILES			
Deirochelys reticularia miaria	Western Chicken Turtle	Endangered	
Emydoidea blandingii	Blanding's Turtle	Endangered	
Kinosternon flavescens	Yellow Mud Turtle	Endangered	
Nerodia cyclopion	Mississippi Green Watersnake*	Endangered	
Sistrurus catenatus	Eastern Massasauga*	Endangered	Threatened
Sistrurus tergeminus tergeminus	Prairie Massasauga	Endangered	
BIRDS			
Botaurus lentiginosus	American Bittern	Endangered	
Circus hudsonius	Northern Harrier	Endangered	
Egretta thula	Snowy Egret	Endangered	
Falco peregrinus	Peregrine Falcon	Endangered	
Limnothlypis swainsonii	Swains on's Warbler	Endangered	
Peucaea aestivalis	Bachman's Sparrow	Endangered	
Rallus elegans	King Rail	Endangered	
Sterna antillarumathalassos	Interior Least Tern	Endangered	Endangered
Tympanuchus cupido	Greater Prairie-chicken	Endangered	<u> </u>
MAMMALS			
Canis lupus	Gray Wolf*		Endangered
Canis rufus	Red Wolf*		Endangered
Corynorhinus townsendii ingens	Ozark Big-eared Bat*	Endangered	Endangered
Lepus californicus	Black-tailed Jackrabbit	Endangered	Latualigeted
Myotis grisescens	Gray Myotis	Endangered	Endangered
Myotis septentrionalis	Northern Long-eared Myotis	Endangered	Threatened
Myotis sodalis	Indiana Myotis	_	
Spilogale putorius interrupta	Plains Spotted Skunk	Endangered Endangered	Endangered
Spilogaie putorius interrupia	i iams sponedskunk	Landangered	

 $[*]Considered \, extirpated, his torical \, or \, accidental \, occurrence \, in \, Mis \, souri.$

SPECIES AND STATUSES

SCIENTIFIC NAME	COMMON NAME	<u>SRANK</u>	<u>GRANK</u>	STATE STATUS	FEDERAL STATUS
LICHENS					
Cladonia cervicornis ssp. verticillata	A Lichen	S?	G5		
Cladonia leporina	A Lichen	S2	G4G5		
Coenogoniummissouriense	Missouri Cave Lichen	SH	GH		
Collema nigrescens	A Lichen	SU	G5?		
Dendris cocaulon intricatulum	A Lichen	S?	GUQ		
Dermatocarpon moulinsii	A Lichen	S 1	GNR		
Dibaeis absoluta	A Lichen	S 1	G4		
Flavoparmelia rutidota	A Lichen	S?	G4G5		
Graphina sophisticascens	A Lichen	SH	GNR		
Imshaugia aleurites	A Lichen	S?	G5		
Lecidea lurida	A Lichen	SU	GNR		
Pannaria rubiginosa	A Lichen	S 1	G4G5		
Parmelia squarrosa	A Lichen	S?	G5		
Parmelina horrescens	A Lichen	S 1	G5		
Parmotrema hypoleucinum	A Lichen	S 1	G4G5		
Parmotrema tinctorum	A Lichen	S2	G5?		
Parmotrema xanthinum	A Lichen	S?	G3G5		
Pseudocyphellaria aurata	A Lichen	S 1	G3G5		
Ps ora icterica	A Lichen	S 1	G5?		
Pycnothelia papillaria	A Lichen	S 1	GG G		
Ramalina intermedia	A Lichen	S 1	G5		
Rimelia subisidiosa	A Lichen	S 1	G4G5		
Tuckermannopsis ciliaris	A Lichen	S?	GG G		
Usnea angulata	A Lichen	S 1	G3G5		
Xanthoparmelia australasica Total Lichen Records: 25	A Lichen	S1	C5		
LIVERWORTS AND HORNW	ORTS				
Aneura sharpii	A Liverwort	S1	GNR		
Anthoceros agrestis	A Hornwort	S2	G4G5		
Bazzania trilobata var. depauperata	A Liverwort	S1	G5TUQ		
Bazzania trilobata var. trilobata	A Liverwort	S1	G5T5		
Calypogeia muelleriana s sp. muelleriana	A Liverwort	SU	G5T5		
Calypogeia sullivantii	A Leafy Liverwort	S1	G4		
Frullania kunzei	A Liverwort	S1	G4		
Fuscocephaloziopsis catenulata	A Liverwort	S2	G5		
Fuscocephaloziopsis connivens	A Liverwort	S1	G5		
Jungermannia leiantha	A Liverwort	S1	G5		
Kurzia pauciflora	A Liverwort	S1	G5		
Kurzia sylvatica	A Liverwort	S1	G5		
Leucolejeunea unciloba	A Liverwort	S1	G4G5		
Marchantia polymorpha ssp. polymorpha	A Liverwort	S1	G5TNR		

SCIENTIFIC NAME	COMMON NAME	<u>SRANK</u>	<u>GRANK</u>	STATE STATUS	FEDERAL STATUS
LIVERWORTS AND HORNW	ORTS (Cont.)				
Marsupella sullivantii	A Liverwort	S2	G5		
Metzgeria conjugata	A Liverwort	S 1	G5		
Metzgeria furcata	A Liverwort	S2	G5		
Nardia lescurii	A Liverwort	S 1	G3?		
Notothylas orbicularis	A Hornwort	S1	G5		
Nowellia curvifolia	A Liverwort	S2	G5		
Odontoschisma denudatum	A Liverwort	S 1	G5		
Oxymitra incrassata	A Liverwort	S1	GNR		
Phaeoceros oreganus	A Hornwort	S1	GNRQ		
Plagiochasma wrightii	A Liverwort	SH	G3?		
Ptilidium pulcherrimum	A Liverwort	S 1	G5		
Radula australis	A Liverwort	SR	G3G4		
Rectolejeunea maxonii	A Liverwort	S1	G4		
Riccardia multifida	A Liverwort	S1	G5		
Riccardia palmata	A Liverwort	S1	G5		
Riccia austini	A Liverwort	S2	G5		
Riccia bifurca	A Liverwort	SU	G5		
Riccia cavernosa	A Liverwort	S1	G5		
Riccia crystallina	A Liverwort	SU	G4G5		
Riccia frostii	A Liverwort	S1	G5		
Riccia hirta	A Liverwort	S2	G5		
Riccia macallisteri	A Liverwort	S1	G2G4		
Riccia nigrella	A Liverwort	SU	G4G5		
Riccia ozarkiana	A Liverwort	SH	G1G2		
Riccia sorocarpa	A Liverwort	S 1	G5		
Riccia sullivantii	A Liverwort	S?	G4Q		
Schistochilopsis incis a	A Liverwort	S 1	G5		
Total Liverwort and Hornwort	Records: 41				
MOSSES					
Acaulon muticum var. muticum	A Moss	S 1	G4G5TNR		
Anacamptodon s plachnoides	Knothole Moss	S1	G3G5		
Anomobryum julaceum	A Moss	S 1	G4G5		
Archidiumalternifolium	A Moss	S 1	G4G5		
Atrichumcrispulum	A Moss	S2	GNR		
Atrichumcrispum	A Moss	S 1	G5		
Atrichumcylindricum	A Moss	S 1	G5		
Brachelyma subulatum	A Moss	S1	G4G5		
Brachytheciumcampestre	A Moss	S 1	G4G5Q		
Brachytheciums alebrosum var. salebrosum	A Moss	SU	G5TNR		
Bruchia texana	A Moss	SU	G3G5		
Bryhnia novae-angliae	A Moss	S1	G5		
Bryoxiphium norvegicum	Sword Moss	S1	G5?		
Calliergonella cuspidata	A Moss	S1	G5		
Campylium protensum	A Moss	S2	G3G5		
Campylopodiella stenocarpa	A Moss	S 1	G5		

SCIENTIFIC NAME	COMMON NAME	<u>SRANK</u>	<u>GRANK</u>	STATE STATUS	FEDERAL STATUS
MOSSES (Cont.)					
Campylopus tallulensis	A Moss	S2	G4		
Codriophorus aciculare	A Moss	S1	G5		
Dichelyma capillaceum	A Moss	S1	G5		
Dicranella rufes cens	A Moss	S1	G5?		
Dicranumpolysetum	A Moss	S1	G5		
Didymodon revolutus	A Moss	S1	G4		
Didymodon rigidulus var. rigidulus	A Moss	S1	G5T4?		
Ditrichum rhynchostegium	A Moss	S 1	G3G5		
Drepanocladus aduncus	A Moss	SU	G5		
Drepanocladus polygamus	A Moss	S 1	G5		
Encalypta procera	ExtinguisherMoss	S1	G5		
Entodon brevisetus	A Moss	S 1	G4?		
Ephemerum crass in ervium var.	A Moss	SU	G4T3?		
texanum					
Ephemerumserratum	A Moss	S1	G4		
Fis sidens exilis	Small Pocket Moss	S2	G3G4		
Fis sidens hallianus	A Moss	S2	GNRQ		
Forsstroemia producta	A Moss	S1	G5?		
Funaria americana	A Moss	SU	G3?		
Gemmabryum klinggraeffii	A Moss	S1	G4G5		
Gemmabryum ruderale	A Moss	S2	G3G5		
Gemmabryum subapiculatum	A Moss	SX	G5?		
Grimmia olneyi	A Moss	S2	G3G5		
Grimmia plagiopodia	A Moss	S1	G4G5		
Gymnostomumcalcareum	A Moss	SU	G5?		
Herzogiella striatella	A Moss	SU	G4G5		
Homaliadelphus sharpii	Sharp's Homaliadelphus	S 1	G3?		
Hypnumcupressiforme var. filiforme	A Moss	S1	G5TNR		
Hypnumlindbergii	Lindberg's Hypnum Moss	SU	G5		
Hypnumpallescens	A Moss	S1	G5		
Hypnumpratense	A Moss	S1	G5		
Imbribryum miniatum	A Moss	S1	G4G5		
Is opterygiopsis muelleriana	A Moss	S1	G5		
Jaffueliobryumraui	A Moss	S2	G4?		
Jaffueliobryumwrightii	A Moss	S1	G4G5		
Leskea polycarpa	A Moss	SU	G5		
Micromitrium megalosporum	A Moss	S1S2	G4		
Micromitrium synoicum	A Moss	SU	G4		
Micromitrium tenerum	A Moss	S1	G4G5		
Mniumhornum	A Moss	S1	G5		
Mniumthomsonii	A Moss	S?	G5		
Myurella sibirica	A Moss	S2	G5		
Neckera bes seri	A Moss	S1	G4G5		
Orthotrichum anomalum	A Moss	S?	G5		
Orthotrichumdiaphanum	A Moss	S2	G5		
Orthotrichumelegans	A Moss	S1	G5T5		

SCIENTIFIC NAME	COMMON NAME	<u>SRANK</u>	<u>GRANK</u>	STATE STATUS	FEDERAL STATUS
MOSSES (Cont.)					
Orthotrichumlescurii	A Moss	S1	GNR		
Physcomitriumcollenchymatum	A Moss	S1	G2G4		
Physcomitriumhookeri	A Moss	SU	G2G4		
Plagiomniummedium	A Moss	SU	G5		
Plagiotheciumdenticulatum	A Moss	S1	G5		
Platylomella les curii	A Moss	S2	G5		
Pleuridium acuminatum	A Moss	S2	GNR		
Pleuridium sullivantii	A Moss	S1	G3G5		
Pohlia annotina	A Moss	S2	G4G5		
Polytrichastrum formosum var.	A Moss	S1	G5TNR		
densifolium					
Pseudocampyliumradicale	A Moss	S 1	G3G5		
Pseudotaxiphyllum	A Moss	S1	G4G5		
distichaceum					
Ptychomitriumserratum	A Moss	S1	G4?		
Ptychomitriumsinense	A Moss	S1	G3?Q		
Ptychostomumcernuum	A Moss	S1	GGG		
Ptychostomumcyclophyllum	A Moss	S?	G4G5		
Ptychostomumpallescens	A Moss	\mathbf{SU}	G5		
Ptychostomumpendulum	A Moss	S 1	G5		
Pylais ia intricata	A Moss	\mathbf{SU}	G4		
Pylais ia delpha tenuirostris	A Moss	S2	G5?		
Pyramidula tetragona	A Moss	S 1	G3G5		
Rhabdoweis ia cris pata	A Moss	S 1	G5		
Rhytidiumrugosum	Golden Glade-moss	S 1	G5		
Rosulabryumflaccidum	A Moss	S2	GNR		
Schistidiumliliputanum	A Moss	S 1	GNR		
Seligeria calcarea	A Moss	S?	G4?		
Seligeria donniana	A Moss	S 1	G4G5		
Seligeria pusilla	A Moss	S1	G3G5		
Sematophyllummarylandicum	A Moss	S1	G5		
Sphagnumaffine	Sphagnum	S1	G5		
Sphagnumangustifolium	Narrowleaf Peatmoss	S 1	G5		
Sphagnumbartlettianum	Sphagnum	S1	G4G5		
Sphagnumcapillifolium	Northern Peatmoss	S2	G5		
Sphagnumcuspidatum	Sphagnum	S1	G5		
Sphagnumfallax	Sphagnum	S 1	G5		
Sphagnumfimbriatumvar. fimbriatum	Sphagnum	S 1	G5T5		
Sphagnumhenryense	Sphagnum	S 1	G4?		
Sphagnuminundatum	Sphagnum	S1	G4		
Sphagnummagellanicum	Magellan's Peatmoss	S1	G5		
Sphagnumplatyphyllum	Sphagnum	SU	G5		
Sphagnumrecurvum	Sphagnum	S 1	G5		
Sphagnumrussowii	Sphagnum	S 1	G5		
Sphagnumsubtile	Sphagnum	S2	G5		
Sphagnumtrinitense	Sphagnum	S 1	G4		
Syntrichia papillosa	A Moss	S2	G5		

SCIENTIFIC NAME	COMMON NAME	<u>SRANK</u>	<u>GRANK</u>	STATE STATUS	FEDERAL STATUS
MOSSES (Cont.)					
Syrrhopodontexanus	A Moss	S2	G5		
Thamnobryumalleghaniense	A Moss	S1	G5?		
Tortella fragilis	Fragmented Screw-moss	SU	G5		
Tortella tortuosa	Twisted Moss	SU	G5		
Trematodonlongicollis	A Moss	S2	G5		
Trichostomumtenuirostre var.	A Moss	S1	G5TU		
gemmiparum		~ -			
Ulota hutchinsiae	Hutchins' Ulota Moss	S 1	G5		
Weis sia phascopsis	A Pygmy Moss	S1	G3G4		
Zygodonapiculatus	A Moss	S1	GU		
Total Moss Records: 115					
FERNS AND FERN ALLIES					
Aspleniumbradleyi	Bradley's Spleenwort	SU	G4		
Asplenium montanum	Mountain Spleenwort	SH	G5		
Aspleniumpinnatifidum	Lobed Spleenwort	SU	G4		
As plenium trichomanes s sp. trichomanes	Maidenhair Spleen wort	SU	G5T5		
Azolla caroliniana	Eastern Mosquito Fern	S1S3	G5		
Botrychiumbiternatum	Few-lobed Grape Fern	S 1	G5		
Cheilanthes alabamensis	Alabama Lip-fern	S 1	G4G5		
Cheilanthes tomentosa	Woolly Lip-fern	S 1	G5		
Cystopteris tenuis	A Bladderfern	S1	G5		
Dennstaedtia punctilobula	Hay-scented Fern	S2	G5		
Dryopteris carthusiana	Spinulose Shield Fern	S2	G5		
Dryopteris celsa	Log Fern	S1	G4		
Dryopteris cristata	Crested Fern	S1	G5		
Dryopteris goldiana	Goldie's Fern	S2	G4G5		
Dryopteris intermedia	Evergreen Woodfern	S1	G5		
Huperzia porophila	Fir Clubmoss	S2	G4		
Isoetes engelmannii var. engelmannii	Engelmann's Quillwort	S1?	G4TNR		
Lycopodiumdendroideum	Round-branched Ground Pine	S 1	G5		
Lycopodiumtristachyum	Ground Cedar	S1	G5		
Matteuccia struthiopteris var. pensylvanica	Ostrich Fern	S2	G5T5		
Ophioglossumcrotalophoroides	Bulbous Adder's-tongue	SH	G5		
Ophioglossumpetiolatum	Stalked Adder's-tongue	SX	G5		
Pellaea glabella var. mis souriensis	Missouri Cliffbrake	S1S2	G5T1T2		
Pilularia americana	American Pillwort	SU	G5		
Pteridiumaquilinumvar.	Bracken	SU	G5T5		
pseudocaudatum					
Woodsia obtusas sp. occidentalis	Blunt-lobe Woodsia	S1	G5T3T4		
Woodwardia areolata	Netted Chain Fern	S2	G5		

Total Ferns and Fern Allies Records: 27

SCIENTIFIC NAME	COMMON NAME	<u>SRANK</u>	<u>GRANK</u>	STATE STATUS	FEDERAL STATUS
FLOWERING PLANTS					
Acalypha deamii	Large Seeded Mercury	S1	G4?		
Aconitumuncinatum	Southern Monkshood	S1	G4:		
Agalinis auriculata	Auriculate False Foxglove	S3	G		
Agalinis heterophylla	Prairie False Foxglove	S1	G4G5		
Agalinis purpurea	Purple False Foxglove	S2	G5		
Agalinis viridis	Green False Foxglove	S1	G4?		
Agastache scrophulariifolia	Purple Giant-hyssop	S1	G4:		
Agrimonia gryposepala	Tall Agrimony	SU	G5		
Allium burdickii	Wild Leek	S2	G4G5		
Alopecurus aequalis	Floating Foxtail Grass	S2 S2	G5		
Amorpha nitens	Shining False Indigo	S1	G3?		
Amorpha intens Amsonia ciliata var. filifolia	Ciliate Blue Star	S2S3	G5?T4?		
Andropogon hirsutior	Bushy Bluestem	SU SU	G5T5		
Anemone cylindrica	Thimbleweed	S2	G5		
Anemone quinquefolia var.	Wood Anemone	S2 S1	G5T5		
quinquefolia	w ood Allemone	31	W13		
Aralia nudicaulis	Wild Sarsaparilla	S2	G5		
Aristida adscensionis	Sixweeks Three-awn	SH	G5		
Aristida desmantha	Curly Three-awn	S2	G5		
Aristida lanosa	Woollyleaf Three-awn	S1	G5		
Aristida ramos issima	Slender Three-awn	SH	G5		
Aronia melanocarpa	Black Chokeberry	S1	G5		
Artemisia dracunculus	A Wormwood	SH	G5		
As clepias exaltata	Poke Milkweed	S1	G5		
As clepias meadii	Mead's Milkweed	S2	G2	E	T
As clepias speciosa	Showy Milkweed	SA	G5		
Astragalus lotiflorus	Low Milk Vetch	S2	G5		
Astranthiumciliatum	Western Daisy	S2	G5T5		
Baptis ia sphaerocarpa	Round-fruited Yellow Wild Indigo	SU	G4G5		
Bartonia paniculata ssp.	Screwstem	S 1	G5T5		
paniculata Bartonia virginica	Yellow Bartonia	S1	G5		
Berberis canadensis	American Barberry	S1	G3		
Bergia texana	Bergia	S2	G5		
Berula erecta var. incisa	Cut-leaved Water-parsnip	S1	G4G5T4T5		
Bidens beckii	Water Marigold	SU	G5		
Bidens laevis	A Beggar's Tick	S1	G5		
Bolboschoenus maritimus ssp.	Bayonet Grass	S1	G5		
paludosus	·				
Boltonia decurrens	Decurrent False Aster	S 1	G2G3	Е	T
Bouteloua gracilis	Blue Grama	S1	G5		
Bouteloua hirsuta var. hirsuta	Hairy Grama	S2	G5T5		
Bromus latiglumis	A Brome	S3	G5		
Buchloe dactyloides	Buffalo Grass	SH	G4G5		
Calamagrostis porteri ssp. insperata	Oferhollow Reed Grass	S3	G4T3		
Calamagrostis strictassp. inexpansa	Northern Reedgrass	S2S3	G5T5		
шопринои	10				

SCIENTIFIC NAME	COMMON NAME	<u>SRANK</u>	<u>GRANK</u>	STATE FEDERAL STATUS STATUS
FLOWERING PLANTS (Cont.)			
Calamovilfa longifolia var. longifolia	Long-leaved Reed Grass	SH	G5T5	
Callicarpa americana	French Mulberry	S1	G5	
Callirhoe bushii	Bush's Poppy Mallow	S2	G3	
Callirhoe triangulata	Clustered Poppy Mallow	SH	G3	
Callitriche palustris	Vernal Water Starwort	SU	G5	
Calopogonoklahomensis	Grass Pink Orchid	S2	G3	
Calopogontuberosus	Grass Pink Orchid	S2	G5	
Caltha palustris	Marsh Marigold	S1	G5	
Campanula aparinoides var. aparinoides	Marsh Bellflower	S1	G5TNR	
Campanula rotundifolia	Harebell	S1	G5	
Carex abscondita	A Sedge	S1	G4G5	
Carex alata	Broadwing Sedge	S2S3	G5	
Carex albicans var. australis	Bellow Beaked Sedge	S1	G5T5	
Carex albolutescens	Greenish-white Sedge	S1S2	G5	
Carex aquatilis var. substricta	A Sedge	SH	G5TNR	
Carex atherodes	Awned Sedge	SH	G5	
Carex atlantica ssp. atlantica	A Sedge	S1	G5T5	
Carex atlantica ssp. capillacea	Prickly Bog Sedge	S1	G5T5?	
Carex bromoides ssp.	A Sedge	S2	G5T5	
bromoides		~-		
Carex buxbaumii	Brown Bog Sedge	S2	G5	
Carex communis var. communis	Fibrous-root Sedge	S2	G5T5	
Carex comosa	Bristly Sedge	S2	G5	
Carex conoidea	Field Sedge	S1	G5	
Carex cumberlandensis	A Sedge	S1	GNR	
Carex debilis var. debilis	White-edge Sedge	S1	G5T5	
Carex decomposita	Epiphytic Sedge	S3	G3G4	
Carex echinodes	A Sedge	SH	G5TNR	
Carex fissa var. fissa	A Sedge	S1	G4?T3T4	
Carex flaccos perma	A Sedge	S2	G5	
Carex gigantea	Giant Sedge	S1S2	G4	
Carex gracillima	Graceful Sedge	S1	G5	
Carex inops ssp. heliophila	Sun Sedge	SU	G5T5	
Carex joorii	Cypress-swamp Sedge	SH	G4G5	
Carex lacustris	Lake-bank Sedge	S2	G5	
Carex laxiculmis var. copulata	A Sedge	SU	G5T4	
Carex laxiculmis var. laxiculmis	A Sedge	SU	G5T5	
Carex laxiflora var. laxiflora	A Carex	S1	G5T5	
Carex longii	Greenish-white Sedge	SH	G5	
Carex microdonta	A Sedge	S1	G4	
Carex missouriensis	Missouri Sedge	SU	G4	
Carex molestiformis	A Sedge	S2	G4	
Carex oxylepis	Sharp-scale Sedge	S2	G5?	
Carex prasina	Drooping Sedge	S1	G4	
Carex reniformis	Reniform Sedge	S1	G4?	
Carex reznicekii	A Sedge	S2?	G5	

SCIENTIFIC NAME	COMMON NAME	<u>SRANK</u>	<u>GRANK</u>	STATE STATUS	FEDERAL STATUS
FLOWERING PLANTS (Cont.)				
Carex sartwellii	Sartwell's Sedge	S1	G5		
Carex scabrata	Rough Sedge	SH	G5		
Carex socialis	A Sedge	S2	G4		
Carex sprengelii	Longbeak Sedge	S2	G5		
Carex sterilis	A Sedge	S2	G4G5		
Carex straminea	Straw Sedge	S1	G5		
Carex sychnocephala	A Sedge	SH	G5		
Carex tetanica	Rigid Sedge	S3	G4G5		
Carex tons a var. rugosperma	Shaved Sedge	S1	G5T5		
Carex tons a var. tons a	Shaved Sedge	SH	G5T5		
Carex triangularis	Triangular Sedge	S2	G5		
Carex trichocarpa	Hairy-fruited Sedge	S1	G4		
Carex vesicaria var. monile	A Sedge	S2?	G5T4		
Carex willdenowii	Willdenow's Sedge	S1	G5		
Carex woodii	A Sedge	S1	G4		
Carya pallida	Sand Hickory	S2S3	G5		
Castanea pumila var. ozarkensis	Ozark Chinquapin	S2S3	G5T3		
Castanea pumila var. pumila	Chinquapin	SU	G5T5?		
Castilleja purpurea var.	Purple Paintbrush	SH	G5T4?		
purpurea	Turple Tunitorusii	511	& I 1.		
Castilleja sessiliflora	Downy Painted Cup	S2	G5		
Cayaponia quinqueloba	A Gourd	S 1	G4		
Centaurea americana	American basket flower	SH	G5		
Centrosema virginianum	Coastal Butterfly-pea	SH	G5		
Ceratophyllumechinatum	Coontail	S1?	G4		
Chaetopappa as teroides var. as teroides	Common Leastdaisy	S2S3	G5T3T5		
Chasmanthiumlaxumssp. laxum	Slender Spike Grass	S1	G5		
Chasmanthiumlaxumssp. sessiliflorum	A Spike Grass	SX	G5		
Chelone obliqua	Rose Turtlehead	S2	G4		
Chenopodiumberlandieri var. boscianum	Pitseed Goosefoot	SU	G5T3T5		
Chenopodiumstrictumvar. glaucophyllum	A Goosefoot	SH	G5TU		
Cicuta maculata var. bolanderi	Common Water Hemlock	SU	G5T3T4		
Cirs ium hillii	Hill's Thistle	SU	G3		
Cirsium undulatum	Wavy-leaved Thistle	S 1	G5		
Cissus trifoliata	Marine Vine	S2	G5		
Cladium jamaicense	Jamaica Swamp Sawgrass	S1	G5T5		
Clematis fremontii	Fremont's Leather Flower	S 3	G5		
Clematis viorna	A Leatherflower	S 1	G5		
Cleome serrulata	Rocky Mountain Bee Plant	SH	G5		
Coeloglos sum viride var. vires cens	Long-bracted Orchid	S1	G5T5		
Coelorachis cylindrica	Joint Grass	S1	G4G5		

SCIENTIFIC NAME	COMMON NAME	<u>SRANK</u>	<u>GRANK</u>	STATE STATUS	FEDERAL STATUS
FLOWERING PLANTS (Cont.	.)				
Coleataenia longifolia ssp. longifolia	Panicgrass	SU	G5T5?		
Conyza canadensis var. pusilla	Fleabane	S1S2	G5T5		
Coris permum americanum	American Bugseed	SU	G5?		
Corispermumpallasii	A Bugseed	SH	G4?		
Corispermum villos um	Oriental Tick-seed	SU	G4?		
Corydalis aurea s sp. aurea	Golden Corydalis	SU	G5T5		
Corydalis micrantha ssp.	A Corydalis	S2	G5T5?		
Crataegus berberifolia var. berberifolia	Barberry-leaved Hawthorn	SU	G4G5Q		
Crataegus collina var. lettermanii	Hillside Hawthorn	SU	GNRTNR		
Crataegus collina var. sordida	Hillside Hawthorn	SU	GNRTNR		
Crataegus fecunda	St. Clair Hawthorn	SU	G3?Q		
Crataegus lanuginosa	Woolly Hawthorn	SU	G3?Q		
Crataegus macrosperma	Eastern Hawthorn	SU	G5		
Crataegus margarettae var. brownii	Margaret's Hawthorn	SU	G5?TNR		
Crataegus marshallii	Parsley Haw	S1	G5		
Crataegus pruinosa var. magnifolia	Frosty Hawthorn	SU	G5TNR		
Crataegus schuettei	Royal Hawthorn	SU	G5?		
Crataegus s pathulata	A Hawthorn	S 1	G5		
Crataegus spes-aestatum	Summers Hawthorn	SU	GNR		
Crataegus succulenta var.	Succulent Hawthorn	SU	G5T5		
Crataegus texana var. das yphylla	Texas Red Hawthorn	SU	GNRTNR		
Crataegus transmis sis sippiensis	A Hawthorn	SU	GNR		
Crataegus viridis var. nitens	Green Hawthorn	SU	G5TNR		
Croton michauxii	Narrowleaf Rushfoil	S1	G5		
Cus cuta obtusiflora var. glandulosa	Peruvian Dodder	SU	G5T4T5		
Cyclachaena xanthiifolia	A Marsh Elder	S1	G5		
Cynosciadiumdigitatum	Finger Dog-shade	S2	G4G5		
Cyperus compressus	Coco Grass	S 1	G5		
Cyperus croceus	Baldwin's Cyperus	S 1	G5		
Cyperus diandrus	Umbrella Flatsedge	S 1	G5		
Cyperus flavicomus	An Umbrella Sedge	S 1	G5		
Cyperus hystricinus	Flatsedge	S2	G4		
Cyperus plukenetii	Plukenet's Cyperus	S2	G5		
Cyperus retroflexus	Umbrella Sedge	S 1	G5		
Cyperus retrofractus	Teasel-like Cyperus	S1S2	G5		
Cyperus retrorsus	An umbrella sedge	SH	G5		
Cyperus schweinitzii	Schweinitz's Flatsedge	S3	G5		
Cyperus setigerus	Bristled Cyperus	S 1	G3G5		
Cypripediumcandidum	Small White Lady-slipper	S 1	G4		
Cypripediumreginae	Showy Lady-slipper	S2S3	G4G5		

SCIENTIFIC NAME	COMMON NAME	<u>SRANK</u>	<u>GRANK</u>	STATE STATUS	FEDERAL STATUS
FLOWERING PLANTS (Cont.)				
Dalea enneandra	Nine-anther Dalea	S2	G5		
Dalea gattingeri	Gattinger Prairie-clover	S 1	G3G4		
Dalea multiflora	Round-headed Prairie Clover	SH	G5		
Dalea villos a var. villos a	Silky Prairie Clover	SU	G5T5		
Decodon verticillatus	Swamp Loosestrife	S 1	G5		
Delphiniumexaltatum	Tall Larkspur	S2	G3		
Des curainia pinnata ssp. pinnata	Tansy Mustard	S2S3	G5T5		
Desmodiumochroleucum	Creamflower Tick Trefoil	SH	G2		
Desmodiumstrictum	Pineland Tick Trefoil	S2	G4		
Desmodiumviridiflorum	Velvety Tick Trefoil	S1	G5?		
Diarrhena americana	American Beakgrain	S1	G4G5		
Dichanthelium dichotomum ssp.	A Panic Grass	SH	G4?		
mattamus keetense Dichanthelium dichotomum var. nitidum	A Panic Grass	S1	G5TNR		
Dichanthelium leibergii	A Panic Grass	SU	G4		
Dichantheliumyadkinense	A Panic Grass	S1	G5T4Q		
Dichondra carolinensis	Pony-foot Grass	S1	G5		
Dirca decipiens	Leatherwood	SU	G1G2		
Distichlis spicata var. spicata	Seashore Salt Grass	S1	G5TNR		
Doellingeria umbellata var.	Flat-topped White Aster	S1	G5T5		
pubens	That topped Winter Ister	D1	W13		
Echinacea angustifolia	Narrow-leaved Coneflower	S 1	G4		
Echinochloa walteri	A Barnyard Grass	S1	G5		
Echinodorus tenellus	Dwarf Burhead	S1	G5?		
Elatine triandra var. americana	Waterwort	SH	G4		
Elatine triandra var. triandra	Waterwort	SH	G5		
Eleocharis atropurpurea	A Spike Rush	S1	G4G5		
Eleocharis bifida	Glades Spikerush	S1	G3G4		
Eleocharis equisetoides	Horsetail Spike Rush	SH	G4		
Eleocharis lanceolata	Lance-like Spike Rush	S2	G4G5		
Eleocharis parvula	Small Spike Rush	SU	G5		
Elodea canadensis	Broad Waterweed	SU	G5		
Elymus churchii	Church's Wildrye	S 1	G2G3		
Elymus glaucus	Blue Wild Rye	SU	G5		
Epifagus virginiana	Beech Drops	S2	G5		
Epilobium leptophy llum	Willow Herb	S1	G5		
Eragrostis curtipedicellata	Gummy Lovegrass	S1	G5		
Eragrostis glomerata	A Love Grass	S1	G3G5		
Eragrostis reptans	Creeping Love Grass	SH	G5		
Erianthus giganteus	Plume Grass	S1	G5		
Erianthus strictus	Narrow Plumegrass	SH	G5		
Eriogonumlongifoliumvar. longifolium	Umbrella Plant	S2	G4T4		
Erysimum capitatum var. capitatum	Western Wallflower	S3?	G5T5		
Euonymus americanus	Strawberry Bush	S2	G5		

SCIENTIFIC NAME	COMMON NAME	<u>SRANK</u>	<u>GRANK</u>	STATE STATUS	FEDERAL STATUS
FLOWERING PLANTS (Cont.)				
Eupatoriumalbum	White Thoroughwort	SU	G5		
Eupatoriummaculatumvar. bruneri	Spotted Joe-pye Weed	S1	G5T5		
Eupatoriumrotundifoliumvar. scabridum	A Thoroughwort	S1?	G5T3T5		
Eupatorium semiserratum	A Thoroughwort	S1S2	G5		
Euphorbia geyeri var. geyeri	Geyer's Spurge	S1	G5T5		
Euphorbia ouachitana	A Spurge	SU	GNR		
Eurybia furcata	Forked Aster	S2	G3		
Eurybia macrophylla	Big-leaved Aster	S2	G5		
Festucasororia	A Fescue	SH	G4		
Filipendula rubra	Queen of the Prairie	S2	G4G5		
Fimbristylis littoralis var. littoralis	A Fimbristylis	S1	G3G5TNR		
Fimbristylis perpusilla	Harper's Fimbry	SH	G2		
Floerkea proserpinacoides	False Mermaid	SU	G5		
Fragaria vesca	Woodland Strawberry	S 1	G5		
Fraxinus biltmoreana	Biltmore Ash	SU	G5		
Fuirena simplex var. aristulata	An Umbrella Grass	S2?	G5T4		
Gaillardia aestivalis var.	A Blanket Flower	SH	G5T3T5		
flavovirens					
Galium boreale	Northern Bedstraw	S2	G5		
Gaylus sacia baccata	Black Huckleberry	S1	G5		
Gentiana andrewsii var. andrewsii	Closed Gentian	S1	G5?T5?		
Geocarpon minimum	Geocarpon	S2	G2	E	T
Geum fragarioides	Barren Strawberry	S2	G5T5		
Gillenia trifoliata	Indian Physic	SH	G4G5		
Glyceria acutiflora	Sharp-scaled Manna Grass	S3	G5		
Glyceria septentrionalis var. arkansana	Eastern Manna Grass	SU	G5		
Glycyrrhiza lepidota var. lepidota	Wild Licorice	S1	G5TNRQ		
Gratiola viscidula	Hedge Hyssop	S1	G4G5		
Grindelia ciliata	A Goldenweed	S1	G4G5		
Heleniumvirginicum	Virginia Sneezeweed	S3	G3	E	T
Helianthemumcanadense	A Rockrose	SU	G5		
Helianthus angustifolius	Swamp Sunflower	S2	G5		
Helianthus decapetalus	Thin-leaved Sunflower	SU	G5		
Heliotropium curas savicum var. curas savicum	Seaside Heliotrope	S1	G5T5		
Heteranthera reniformis	Mud Plantain	SU	G5		
Heterotheca canescens	Hoary Golden Aster	SH	G5?		
Heuchera parviflora var.	Little Leaved AlumRoot	S 1	G4T4		
parviflora					
Hottonia inflata	Featherfoil	S2	G4		
Houstonia canadensis	Canadian Summer Bluet	S1	G4G5		
Houstonia rosea	Rose Bluets	SU	G5		

SCIENTIFIC NAME	COMMON NAME	<u>SRANK</u>	<u>GRANK</u>	STATE STATUS	FEDERAL STATUS
FLOWERING PLANTS (Cont.)				
Hydrocotyle ranunculoides	Floating Pennywort	S1S2	G5		
Hydrocotyle verticillata	Water Pennywort	S1	G5		
Hydrolea ovata	Ovate Fiddleleaf	S2	G5		
Hypericumadpressum	Creeping St. John's-wort	S1	G3		
Hypericumlobocarpum	A St. John's Wort	S 1	G4Q		
Hypericummajus	Greater St. John's-wort	SH	G5		
Hypericumpyramidatum	Great St. John's-wort	S 1	G4T4		
Ilex verticillata var. padifolia	Winterberry	S3	G5TNR		
Isolepis molesta	Gulf Coast Bulrush	SH	G4?		
Is otria medeoloides	Small Whorled Pogonia	SH	G2?	E	T
Isotria verticillata	Large Whorled Pogonia	S1S2	G5		
Juneus alpinoarticulatus	RichardsonRush	SH	G5		
Juneus balticus var. littoralis	Baltic Rush	S1	G5T5		
Juneus brachyphyllus	Small-headed Rush	S1	G5		
Juncus bufonius var. bufonius	Toad Rush	S1	G5T5		
Juncus canadensis var.	Canada Rush	S 1	G5T5		
canadensis	W 1D 1	0.1	O5		
Juncus debilis	Weak Rush	S1	G5		
Juncus filipendulus	Ringseed Rush	SU	G5		
Juncus nodosus	Knotted Rush	SH	G5		
Juncus validus	A Rush	S1	G5		
Justicia ovata var. lanceolata	A Water Willow	S2	G5T4T5		
Kellochloa verrucosa	Warty Panicgrass	S1	G4 C52		
Lactuca hirsuta	Hairy Lettuce	SU	G5?		
Lactuca ludoviciana	Western Lettuce Blue Lettuce	SH S1	G4G5 G5T5		
Lactuca tatarica ssp. pulchella	A Wild Pea	SH	G5?		
Lathyrus pusillus Lathyrus venosus	Bushy Vetchling	SH SU	G5		
Leavenworthia torulosa	Necklace Goldcress	SU	G4		
Lechea racemulosa	Illinois Pinweed	SH	G5		
Leitneria pilosa ssp. ozarkana	Corkwood	S11 S2	GNRTNR		
Lemna obscura	A Duckweed	SU	GNKTNK G5		
Lemna trisulca	Star Duckweed	S2	G5		
Lemna turionifera	A Duckweed	SH	G5		
Liatris punctata var. punctata	A Blazing Star	S3	G5T5		
Liatris scariosa var. nieuwlandii	A Blazing Star	S2	G5?T3T5		
Liatris spicata	Button Snakeroot	SX	G5		
Lilium philadelphicumvar.	Wood Lily	S1	G5T4T5		
andinum	TOOG EM	51	G2 1 1 1 2		
Lilium superbum	Turk's Cap Lily	S1	G5		
Limnobium spongia ssp.	American Frogbit	S2	G4		
spongia					
Limnosciadiumpinnatum	Pinnate Dogshade	S1	G5?		
Limosella aquatica	Mudwort	SH	G5	_	_
Lindera melis sifolia	Pondberry	S1	G3	E	E
Linum floridanum var.	Florida Yellow Flax	SU	G5?T5?		
floridanum Liparis loeselii	Loesel's Twayblade	S2	G5		
ырань юсьеш	Locsors I way blade	54	G.)		

SCIENTIFIC NAME	COMMON NAME	<u>SRANK</u>	<u>GRANK</u>	STATE STATUS	FEDERAL STATUS
FLOWERING PLANTS (Cont.)				
Lipocarpha aristulata	Lipocarpha	SH	G5?		
Lipocarpha drummondii	A Lipocarpha	S 1	G4G5		
Lippia nodiflora	Fog Fruit	SH	G5		
Listera australis	Southern Tway blade	S1	G4		
Lithospermumlatifolium	American Gromwell	S2	G4		
Lobelia puberula	Downy Lobelia	SH	G5		
Lomatium foeniculaceumssp. foeniculaceum	Hairy Parsley	S1S3	G5T5		
Ludwigia glandulosassp. glandulosa	Cylindricfruit Primrose- willow	S2	G5T5		
Ludwigia leptocarpa	Primrose Willow	S2	G5		
Ludwigia linearis	Narrow-leaved Primrose	S 1	G5		
Ludwigia microcarpa	A False Loosestrife	S2	G5		
Ludwigia repens	A False Loosestrife	SU	G5		
Lycopus asper	Bugle Weed	SH	G5		
Lycopus uniflorus	Northern Bugleweed	S 1	G5		
Lygodesmia juncea	Skeleton Plant	S 3	G5		
Lyonia mariana	StaggerBush	SH	G5		
Ly simachia terrestris	Swamp Candle	S1	G5		
Lysimachia thyrsiflora	Tufted Loosestrife	S1	G5		
Maianthemumstellatum	Starry False Solomon's Seal	SU	G5		
Malus angustifolia	Narrow-leaved Wild Crab	S2	G5?		
Malvastrumangustum	Yellow False Mallow	S 3	G3G5		
Mars hallia caes pitosa var. caes pitosa	Barbara's Buttons	S3	G4T4		
Marshallia caes pitosa var. signata	Barbara's Buttons	S 1	G4T4		
Mecardonia acuminata	Water Hyssop	S1	G5		
Medeola virginiana	Indian Cucumber-root	SH	G5		
Melica mutica	Two-flowered Melic Grass	S1	G5		
Melothria pendula	Creeping Cucumber	S3	G5?		
Menyanthes trifoliata	Bogbean	S1	G5		
Mimosa strigillosa	Powderpuff	S 1	G4G5		
Mimulus glabratus var. james ii	Roundleaf Monkey Flower	SH	G5T5		
Minuartia muscorum	Dixie Stitchwort	S1	GNR		
Mirabilis linearis var. linearis	Narrow-leaved Four- o'clock	SU	G5TNR		
Mitreola petiolata	Miterwort	S1	G5		
Moehringia lateriflora	Grove Sandwort	S2S3	G5		
Monardaclinopodia	A Horsemint	S 1	G5		
Monarda punctata var. arkansana	Arkans as Bee Balm	SA	G5TNR		
Monarda punctata var. occidentalis	Dotted Monarda	SA	G5T4T5		
Monarda punctata var. villicaulis	Horsemint	S3	G5T5?		
Muhlenbergia as perifolia	Scratchgrass	S1	G5		

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FLOWERING PLANTS (Cont.)				
Muhlenbergia cuspidata	Plains Muhly	SU	G5		
Muhlenbergia glabrifloris	Inland Muhly	SU	G4?		
Najas flexilis	A Naiad	SH	G5		
Najas gracillima	Thread-like Naiad	S2	G5?		
Nemastylis geminiflora	Prairie Iris	S2	G4		
Nevius ia alabamensis	Snow Wreath	SH	G2		
Nothocalais cuspidata	Prairie Dandelion	S2	G5		
Nyssa biflora	Swamp Black Gum	SH	G5		
Obolaria virginica	Virginia Pennywort	S2	G5		
Oenothera clelandii	Evening Primrose	S2	G3G5		
Oenothera fruticosa s sp. fruticos a	Shrubby Sundrops	S1	G5T5		
Oenothera fruticosa s sp. glauca	Shrubby Sundrops	SH	G5T5		
Oenothera glaucifolia	Stenosiphon	S2	G5		
Oenothera grandis	Cut-leaved Evening Primrose	SU	G5?		
Oenothera nutans	Nodding Evening Primrose	S1S2	G4		
Oenothera parviflora	Northern Evening Primrose	SU	G5		
Oenothera perennis	Small Sundrops	S 1	G5		
Oenothera rhombipetala	An Evening Primrose	SH	G4G5		
Oenothera suffrutescens	Scarlet Gaura	S1	G5		
Oenothera triloba	Stemless Evening Primrose	S2	G4		
Oldenlandia boscii	A Bluet	S1	G5		
Oldenlandia uniflora	Clustered Bluets	S1	G5		
Opuntia macrorhiza var. macrorhiza	Low Prickly Pear	S2	G5T5		
Orobanche ludoviciana	A Broomrape	S 1	G5		
Orobanche riparia	A Broomrape	S1	G4?		
Oxytropis lambertii var. lambertii	Locoweed	S2	G5TNR		
Packera tomentosa	Hairy Groundsel	SH	G4G5		
Paronychia virginica	Virginia Whitlow Wort	S 1	G4		
Paspalumbifidum	Pitchfork Paspalum	S1	G5		
Paspalumdissectum	Mudbank Paspalum	SH	G4?		
Paspalumsetaceumvar. setaceum	Slender Paspalum	S1	G5T5		
Patis racemos a	Black-seeded Mountain Rice	S1	G5		
Pediomelumargophyllum	Silvery Psoralea	S2	G5		
Peltandra virginica ssp. virginica	Arrow Arum	S2	G5T5		
Penstemon cobaea var. purpureus	Purple Beard-tongue	S3	G4TNRQ		
Penstemon grandiflorus	Large Beard-tongue	S1	G5?		
Penstemontenuis	Gulf Coast Beard-tongue	SU	G4		
Perideridia americana	Eastern Eulophus	S2	G4		

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FLOWERING PLANTS (Cont.)				
Persicaria amphibia var.	Water Smartweed	S1	G5T5		
stipulacea	** "		~~		
Persicaria arifolia	Halberd-leaved Tear	S 1	G5		
Persicaria bicornis	Thumb Pink Smartweed	SU	GNR		
Persicaria glabra	Dense-flower Smartweed	S1S2	G5		
Persicaria robustior	Dotted Smartweed	SH	G4G5		
Phacelia covillei	Coville's Phacelia	S11	G3		
Philadelphus pubescens var. verrucosus	Mock Orange	S1	G5?TU		
Phlox amplifolia	Large-leaved Phlox	S3?	G3G5		
Phlox bifida	Bifid Phlox	S 1	G5?		
Phlox maculata ssp. pyramidalis	Wild Sweet William	S2	G5T4T5		
Phyllanthus polygonoides	Knotweed Leaf-flower	S1	G5		
Physalis grisea	Strawberry-tomato	SU	G5?		
Physalis missouriensis	Missouri Groundcherry	SU	G5?		
Physaria filiformis	Missouri Bladderpod	S3	G3	E	T
Physostegia intermedia	A False Dragonhead	S1	G5		
Plantago heterophylla	Slender Plantain	SU	G5		
Plantago patagonica	Woolly Plantain	S2	G5		
Platantheraciliaris	Yellow-fringed Orchid	S1	G5		
Platantheraclavellata	Green Wood Orchid	S2	G5		
Platanthera flava var. flava	Pale Green Orchid	S2	G4?T4?Q		
Platanthera flava var. herbiola	Northern Rein Orchid	S2	G4?T4Q		
Platanthera leucophaea	Eastern Prairie Fringed Orchid	S1	G2G3	Е	T
Platantherapraeclara	Western Prairie Fringed Orchid	S1	G3	Е	T
Platantherapsycodes	Small Purple-fringed Orchid	SX	C5		
Pluchea foetida var. foetida	March Fleabane	SH	G5T5		
Pogonia ophioglossoides	Snake-mouth Orchid	S 1	G5		
Polygonumamericanum	Jointweed	S2	G5		
Polymnia laevigata	Smooth Leaf-cup	SX	G3		
Populus grandidentata	Big-toothed Aspen	S 1	G5		
Populus tremuloides	Quaking Aspen	S2	G5		
Portulaca pilosa	Kiss Me Quick	SU	G5		
Potamogetonepihydrus	Nuttall Pondweed	SH	G5		
Potamogeton pulcher	Spotted Pondweed	S2S3	G5		
Potamogeton pusillus var.	Slender Pondweed	S3	G5T5		
pusillus Potentilla supina ssp. paradoxa	Bushy Cinquefoil	S2	G5		
Prenanthes racemosa	Rattlesnake Root	SH	G5		
Primula fassettii	Amethyst Shooting Star	S11 S2	G4		
Primula frenchii	French's Shooting Star	S2 S1	G3		
Proserpinaca palustris var.	Mermaid Weed	SU	G5T5		
palustris	Monitor Weed	50	W13		
Pseudognaphaliumhelleri	Heller's Cudweed	SU	G4G5		

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FLOWERING PLANTS (Cont.)				
Pseudognaphalium micradenium	Rabbit Tobacco	SU	G4G5T3?		
Ptilimnium capillaceum	Mock Bishop's Weed	SH	G5		
Pycnanthemummuticum	Blunt Mountain Mint	S2	G5		
Pycnanthemumtorrei	Torrey Mountain Mint	SH	G2		
Quercus ellipsoidalis	Northern Pin Oak	S1	G5		
Quercus margarettiae	Sand Post Oak	SRF	G5		
Quercus nigra	Water Oak	S2	G5		
Quercus prinoides	Dwarf Chinquapin Oak	S3?	G5		
Quercus texana	Nuttall's Oak	S2	G4G5		
Ranunculus cymbalaria	Seaside Crowfoot	SH	G5		
Rhynchosia difformis	Double-formed Snoutbean	S 1	G5?		
Rhynchospora globularis var.	Globe Beaksedge	S1	G5?T5?		
globularis	_				
Rhynchosporaglomerata	Clustered Beaksedge	SU	G5		
Rhynchosporaharveyi	Harvey's Beak-rush	S1	G4		
Rhynchospora macrostachya var. macrostachya	Horned Rush	S1	G4T4Q		
Rhynchosporascirpoides	Longbeak Beaksedge	SU	G4		
Ribes americanum	Gooseberry	S1	G5		
Rorippa aquatica	Lake Cress	S2	G4?		
Rosa blanda	Smooth Rose	S1	G5		
Rosa foliolosa	White Prairie Rose	S1	G5		
Rubus plicatifolius	A Blackberry	SU	G5		
Rubus rosa	Rose Blackberry	SU	G5		
Rubus satis	Ithaca Blackberry	SU	G4G5Q		
Rudbeckia amplexicaulis	Clasping Leaved	S1	C5		
Rudbeckia bicolor	Coneflower Pine-woods Coneflower	S1	G3G5		
Rudbeckia grandiflora var.	Rough Coneflower	S1	G5T4?		
grandiflora	_				
Ruppia maritima	Ditch Grass	S1	G5		
Sabatia brachiata	Marsh Pink	S 1	G5?		
Sacciolepis striata	American Cupscale	S 1	G5		
Sagina procumbens	Matted Pearlwort	SU	G5		
Sagittaria ambigua	Kans as Arrowhead	S1	G2?		
Sagittaria platyphylla	Ovate-leaved Arrowhead	S 1	G5		
Salix discolor	PussyWillow	S1	G5		
Salix famelica	Diamond Willow	SU	G5T5		
Salix petiolaris	Meadow Willow	S1	G5		
Sambucus pubens	Red-berried Elderberry	S 1	G4G5Q		
Sanicula s mallii	Black Snakeroot	SH	G5		
Sapindus saponaria var.	Soapberry	S2	G5T5		
drummondii	II 111 D 1 1	60	C2C2		
Schoenoplectiella hallii	Hall's Bulrush	S2	G2G3		
Schoenoplectiella purshiana	Weakstalk Bulrush	S2	G4G5		
Schoenoplectiella saximontana	Rocky Mountain Bulrush	S1	G5		
Schoenoplectus americanus	Olney's Bulrush	SH	G5		
Schoenoplectus californicus	Giant Bulrush	S1	G5		

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FLOWERING PLANTS (Cont.)				
Schoenoplectus deltarum	Delta Bulrush	SH	G3G4		
Schoenoplectus etuberculatus	Canby's Bulrush	SH	G3G4		
Schoenoplectus heterochaetus	Giant Bulrush	SU	G5		
Schoenoplectus subterminalis	Swaying Rush	S1	G5		
Schoenoplectus torreyi	Torrey's Bulrush	SH	G5?		
Scirpus divaricatus	A Bulrush	SH	G5		
Scirpus pallidus	Pale Bulrush	S2	G5		
Scirpus pedicellatus	A Bulrush	S2	G4		
Scleria reticularis var. pubescens	Muhlenberg's Nut-rush	S1	G5		
Scrophularia lanceolata	Early Figwort	SH	G5		
Scutellaria elliptica var. hirsuta	Hairy Skullcap	SH	G5T5		
Scutellaria galericulata	Marsh Skullcap	S 1	G5		
Sida elliottii	Elliott Sida	S1	G4G5		
Sisyrinchiumatlanticum	Eastern Blue-eyed Grass	S2	G5		
Smilax illinoensis	Carrion Flower	S2S3	G4?		
Solanumelaeagnifolium	White Horse Nettle	SU	G4G5		
Solidago riddellii	Riddell's Goldenrod	S3	G5		
Solidago rigida s s p. humilis	Stiff Goldenrod	SU	G5T5		
Spermolepis diffusa	Rough-fruit Spermolepis	S1	GNR		
Sphenopholis pensylvanica	Swamp Oats	SH	G4		
Spiraea alba var. alba	Meadow-sweet	S1	G5T5		
Spiraea tomentosa	Hardhack	S1	G5		
Spiranthes praecox	Greenvein Ladies' Tresses	S1	G5		
Sporobolus airoides	Alkali Sacaton	SH	G5		
Stachys aspera	Hedge Nettle	SH	G4?		
Steinchis ma hians	Gaping Panic Grass	S3	G5		
Stylisma pickeringii var. pattersonii	A Stylisma	S1	G4T4		
Styrax grandifolius	Bigleaf Snowbell	SU	G5		
Sullivantia sullivantii	Sullivantia	S2	G4		
Symphoricarpos occidentalis	Wolfberry	S 1	G5		
Symphyotrichumciliatum	Rayless Alkali Aster	SH	G5		
Symphyotrichumpatens var. gracile	Spreading Aster	SU	G5T4T5		
Symphyotrichumracemosum var. subdumosum	Small White Aster	S2	G4G5T3T5Q		
Thalia dealbata	Water Canna	S2	G4		
Theles perma filifolium	Thelesperma	S2	G4G5		
Tilia americana var.	White Basswood	SU	G5T5		
heterophylla Tipularia discolor	Cranefly Orchid	S3	G4G5		
Torreyochloapallida var. pallida	Pale Manna Grass	S1	G5T5?		
Tradescantia ozarkana	Ozark Spiderwort	S2	G3		
Tragia cordata	Heart-leaved Noseburn	S2	G4		
Trautvetteria caroliniensis	False Bugbane	S2	G5		
Trepocarpus aethusae	Trepocarpus	S 1	G4G5		
Triadenumtubulosum	Marsh St. John's Wort	S1	G4?		

SCIENTIFIC NAME	COMMON NAME	<u>SRANK</u>	<u>GRANK</u>	STATE STATUS	FEDERAL STATUS
FLOWERING PLANTS (Cont.)				
Trichostema setaceum	Blue Curls	S1	G5		
Tridens flavus var. chapmanii	A Grass	S2	G5T3		
Tridens muticus var. elongatus	Slim Tridens	SH	G5T4?		
Trifolium carolinianum	Carolina Clover	S1	G5		
Trifolium stoloniferum	Running Buffalo Clover	S1	G3	Е	E
Trillium nivale	Snow Trillium	S3	G4		
Trillium pusillumvar.	Ozark Wake Robin	S2	G3T3		
ozarkanum	CZMIN W MIC TOOM	52	3313		
Triodanis holzingeri	A Venus' Looking Glass	SH	G4		
Triodanis lamprosperma	A Venus' Looking Glass	S2	G5?		
Turritis glabra	Tower Mustard	S1	G5		
Typha domingensis	Southern Cattail	S1	G4G5		
Ulmus crassifolia	Cedar Elm	S1	G5		
Ulmus thomasii	Rock Elm	S2	G5		
Urtica chamaedry oides	Weak Nettle	S1	G4G5		
Utricularia minor	Lesser Bladderwort	S1	G5		
Utricularia subulata	Slender Bladderwort	S1	G5		
Valerianella ozarkana	Ozark Corn Salad	S2	G3		
Veronica americana	American Brooklime	SH	G5		
Viburnum bracteatum	Ozark Arrow Wood	S1S2	G3		
Viburnum dentatum	Southern Arrow-wood	S132 S1	G5		
		S1 S1	G5		
Viburnum lentago	Nannyberry				
Viburnum recognitum	Northern Arrow-wood	S1	G4G5		
Vicia ludoviciana ssp. leavenworthii	Louisiana Vetch	SH	G5T5		
Vicia minutiflora	Pygmy-flowered Vetch	SH	G5		
Viola affinis	Sand Violet	SII SI	G5		
Viola pallens	Smooth White Violet	S2	G5T5		
Vitis rotundifolia var.	Muscadine	S2 S1	G5T5		
rotundifolia	Widscadille	31	W13		
Wolffia borealis	Dotted Watermeal	SU	G5		
Wolffia columbiana	Columbia Water-meal	SU	G5		
Wolffiella gladiata	Wolffiella	S1	G5		
Xyris jupicai	Yellow-eyed-grass	S1	G5		
Xyris torta	Yellow-eyed Grass	S1	G5		
Yucca arkansana	Arkansas Yucca	S2	G5		
Yucca glauca	Small Soapweed Yucca	S2 S2	G5		
Zannichellia palustris var. major	Horned Pondweed	S3?	G5TNR		
1	White Camas	S2	G5T4T5		
Zigadenus elegans s sp. glaucus Zigadenus nuttallii	Death Camas	S2 S1	G5		
=					
Zizania palustris var. interior	Interior Wild Rice	SH	G4G5T4T5		
Total Flowering Plant Records:	534				
FLATWORMS					
Kenkia glandulosa	Pink Planarian	S1	G2G3		
Macrocotyla lewisi	Lewis' Cave Planarian	S1	G1		
Sphalloplanaevaginata	Perryville Cave Planarian	S1	G1G2		
-r-man pamine, againna	- 511, 1110 Cu (C I minurali	~ -	3. 3 <u>2</u>		

SCIENTIFIC NAME	COMMON NAME	<u>SRANK</u>	<u>GRANK</u>	STATE STATUS	FEDERAL STATUS
FLATWORMS (Cont.) Sphalloplanahubrichti Total Flatworm Records: 4	Hubricht's Cave Planarian	S 1	G2G4		
MOLLUSKS					
Alasmidonta marginata	Elktoe	S2	G4		
Alas midonta viridis	Slippers hell Mussel	S1	G4G5	E	
Amnicola stygius	Stygian Amnicola	S 1	G1		
Anodontoides ferussacianus	Cylindrical Papershell	S1	G5		
Antrobia culveri	Tumbling Creek	S1	G1	E	E
	Cavesnail				
Arcidens confragosus	Rock Pocketbook	S3	G4		
Campeloma crassulum	Ponderous Campeloma	SU	G5		
Cyclonaias nodulata	Wartyback	S3	G4		
Cyprogenia aberti	Western Fanshell	S2	G2G3Q		
Discus nigrimontanus	Black Mountain Disc	S3	G4		
Elliptio crassidens	Elephantear	S 1	G5	E	
Epioblasma curtisii	Curtis Pearlymus sel	S1	G1	E	E
Epioblas ma triquetra	Snuffbox	S1	G3	E	E
Fontigens aldrichi	Hoosier Springsnail	S4	G4		
Fontigens antroecetes	Mis souri Cavesnail	S2	G2		
Fontigens proserpina	Proserpine Cavesnail	S1	G1		
Gastrocopta cristata	Crested Snaggletooth	S1	G5		
Gastrocopta pellucida	Slim Snaggletooth	S1	G5		
Henders onia occulta	Cherrystone Snail	S3	G4	_	_
Lampsilis abrupta	Pink Mucket	S2	G2	E	E
Lampsilis brittsi	Northern Brokenray	S3	G4T3		-
Lampsilis higginsii	Higgins Eye	S1	G1G2	E	E
Lampsilis rafines queana	Neosho Mucket	S2	G2	E	E
Leptodea leptodon	Scaleshell	S1	G1G2	E	E
Leptoxis arkansensis	Arkansas Mudalia	S1	G1		
Ligumia recta	Black Sandshell	S2	G4G5		
Lioplax sulculosa	Furrowed Lioplax	S1	C5	г	Г
Margaritifera monodonta	Spectaclecase	S3	G	E	E
Marstonia ozarkensis	Ozark Pyrg	SH	G1		
Marstonia scalariformis	Moss Pyrg	S1	G1		
Mesodon mitchellianus	Sealed Goblet	S1	G4		
Micromenetus sampsoni	Sampson Sprite	S2	G2G3Q		
Millerelix deltoidea	Oklahoma Liptooth	SU S2	G2		
Neohelix divesta Obovaria arkansasensis	Ozark Whitelip	S3	G3G4		
	Southern Hickorynut	S1	GNR		
Obovaria olivaria	Hickorynut	S3	G4		
Patera perigrapta	Engraved Bladetooth Bankclimber	S2	G5		
Plectomerus dombeyanus		S3 S2	C5	E	E
Plethobasus cyphyus Pleurocera alveare	Sheepnose Pugged Hornspoil	S2 S1S3	G	Е	Е
	Rugged Hornsnail			E	E
Potamilus capax Dtych abranchys a caidentalis	Fat Pocketbook	S1	G2 C3C4	E	E
Ptychobranchus occidentalis	Ouachita Kidneyshell	S3	G3G4		

SCIENTIFIC NAME	COMMON NAME	<u>SRANK</u>	<u>GRANK</u>	STATE STATUS	FEDERAL STATUS
MOLLUSKS (Cont.)					
Quadrula fragosa	Winged Mapleleaf	S 1	G1	E	E
Reginaia ebenus	Ebonyshell	S 1	G4G5	E	
Simps on a ias ambigua	Salamander Mussel	S 1	G3	E	
Somatogyrus depressus	Sandbar Pebblesnail	S2	G2		
Somatogyrus rosewateri	Elk Pebblesnail	S1	G1		
Stagnicola elodes	Marsh Pondsnail	S2	G5		
Stenotrema stenotrema	Inland Slitmouth	S3	G5		
Strobilops affinis	Eightfold Pinecone	S2	G4		
Theliderma cylindrica	Rabbitsfoot	S 1	G3G4	E	T
Toxolasma lividum	Purple Lilliput	S1	G3Q		
Toxolas ma texas iense	Texas Lilliput	S3	G4		
Triodopsis cragini	Post Oak Threetooth	SH	G4		
Utterbackianasuborbiculata	Flat Floater	S2	G5		
Ventridens demissus	Perforate Dome	SU	G5		
Vertigo os cariana	Capital Vertigo	S1	G4		
Villosa lienosa	Little Spectaclecase	S 3	G5		
Zonitoides limatulus	Dull Gloss	S1	G4G5		
Total Mollusk Records: 59					
ARACHNIDS					
Apochthonius mysterius	Mystery Cave	S 1	G1G2		
	Pseudoscorpion	0.1	G1 G2		
Apochthonius typhlus	Stone County Cave Pseudoscorpion	S1	G1G2		
Hesperochernes occidentalis	Guano Pseudoscorpion	S3	G5		
Mundochthonius cavernicolus	Cavernicolous	SU	G1G2		
Phanetta subterranea	Pseudoscorpion Subterranean Cave Spider	S1	G5		
Porrhomma cavernicola	Cavernicolous	S2	G5		
	Porrhomma Spider	52	ω		
Total Arachnid Records: 6					
CRUSTACEANS					
Allocrangonyxhubrichti	Hubricht's Long-tailed	S3	G2G3		
	Amphipod				
Bactrurus brachycaudus	Short-tailed Groundwater	S4	G4		
Da at manna a bash si ab ti	Amphipod	C1	C4		
Bactrurus hubrichti	Sword-tail Cave Amphipod	S 1	G4		
Bactrurus pseudomucronatus	False Sword-tailed Cave	S2	G2G3		
Buetraras pseadonmeronatas	Amphipod	52	0203		
Brackenridgia ashleyi	Ashley's Isopod	S2	G1G3		
Caecidotea antricola	A Cave Obligate Isopod	S4	G5		
Caecidotea dimorpha	An Isopod	S1S3	G2G3		
Caecidotea fustis	Fustis Cave Isopod	S2	G2G3		
Caecidotea s alemensis	Salem Cave Isopod	S2	G4		
Caecidotea serrata	Serrated Cave Isopod	S 1	G1G2		
Caecidotea stiladactyla	Slender-fingered Cave	S 1	G3G4		
-	Isopod				

SCIENTIFIC NAME	COMMON NAME	<u>SRANK</u>	<u>GRANK</u>	STATE STATUS	FEDERAL STATUS
CRUSTACEANS (Cont.)					
Caecidotea stygia	Stygian Cave Isopod	S1	G5		
Cambarellus puer	Swamp Dwarf Crayfish	S3?	G5		
Cambarellus shufeldtii	Cajun Dwarf Crayfish	S3?	G5		
Cambarus aculabrum	Benton County Cave Crayfish	SP	G1		E
Cambarus hubrichti	Salem Cave Crayfish	S3	G4		
Cambarus maculatus	Freckled Crayfish	S3	G4		
Cambarus setosus	Bristly Cave Crayfish	S3	G3		
Creas erinus fodiens	Digger Crayfish	S2S3	G5		
Diacyclops yeatmani	Yeatman's Groundwater Copepod	S1S3	G2G3		
Faxonella clypeata	Ditch Fencing Crayfish	S2S3	G5		
Faxonius eupunctus	Coldwater Crayfish	S 1	G2	E	
Faxonius harrisonii	Belted Crayfish	S3	G3		
Faxonius lancifer	Shrimp Crayfish	S1S2	G5		
Faxonius marchandi	Mammoth Spring Crayfish	S1S2	G2		
Faxonius medius	Saddleback Crayfish	S3?	G4		
Faxonius meeki meeki	Meek's Crayfish	S 1	G4T4		
Faxonius peruncus	Big Creek Crayfish	S2	G2		
Faxonius quadruncus	St. Francis River Crayfish	S2	G2		
Faxonius roberti	Spring River Crayfish	SH	GNR	Е	
Faxonius wagneri	Eleven Point River Crayfish	S1	GNR		
Faxonius williams i	Williams' Crayfish	S2	G3		
Lacunicambarus ludovicianus	Painted Devil Crayfish	SU	G5		
Lacunicambarus polychromatus	Paintedhand Mudbug	S1S2	G5		
Lirceus megapodus	An Isopod	SU	GNR		
Macrobrachiumohione	Ohio Shrimp	S1	G4		
Orconectes stygocaneyi	Caney Mountain Cave Crayfish	S1	G1		
Procambarus viaeviridis	Vernal Crayfish	S3?	G5		
Stygobromus barri	Barr's Groundwater Amphipod	S1S3	G2G3		
Stygobromus clantoni	Clanton's Groundwater Amphipod	S1S3	G4		
Stygobromus heteropodus	Pickle Springs Amphipod	SX	G1G2		
Stygobromus onondagaensis	OnondagaCave Amphipod	S3?	G3		
Stygobromus ozarkensis	Ozark Cave Amphipod	S3?	G4		
Stygobromus subtilis	Subtle Groundwater Amphipod	S1S3	G2		
Triops longicaudatus Total Crustacean Records: 45	Longtail Tadpole Shrimp	SU	G5		
MILLIPEDES					
Causeyella dendropus	Causeyella Cave Millipede	S2	G1G3		
Chaetas pis aleyorum	Aleys' Cave Millipede	S1	G1		

SCIENTIFIC NAME	COMMON NAME	<u>SRANK</u>	GRANK	STATE STATUS	FEDERAL STATUS
MILLIPEDES (Cont.)					
Tingupa pallida	Tingupa Cave Millipede	S4	G4		
Zosteractis interminata	Zosteractis Cave Millipede	SU	G2G3		
Total Millipede Records: 4	Wimpede				
INSECTS					
Acroneuria ozarkensis	Ozark Stone	S2	G2		
Agapetus artesus	Artesian Agapetus Caddisfly	S 3	C3		
Aleocharaspeculicollis	A Staphylinid Beetle	SU	GNR		
Allocapnia pygmaea	Pygmy Snowfly	S3	G5		
Alloperla hamata	Barbed Sallfly	S 3	G4		
Alloperla leonarda	Truncate Sallfly	S3	G4		
Ambly scirtes linda	Linda's Roadside Skipper	S2S3	G2G3		
Amblytropidia mysteca	A Glade Grasshopper	SU	G5		
Amphiagrion saucium	Eastern Red Damsel	S2	G5		
Andrena beameri	An Andrenid Bee	S 3	GNR		
Argia alberta	Paiute Dancer	S1	G4		
Arigomphus maxwelli	Bayou Clubtail	SU	G5		
Arrhopalites clarus	Clarus Cave Springtail	S3	G4		
Attaneuria ruralis	Giant Stone	S3	G4		
Baetis ca obesa	A Mayfly	S 3	G5		
Beameria venosa	A Concealed-tymbal Cicada	S3	GNR		
Bibloplectus chickasaw	A Staphylinid Beetle	SU	GNR		
Bombus affinis	Rusty Patch Bumblebee	SU	G1		E
Bombus fervidus	Yellow Bumblebee	S 1	G4?		
Calephelis borealis	Northern Metalmark	S 1	G3G4		
Calephelis muticum	Swamp Metalmark	S3	G3		
Catocala marmorata	Marbled Underwing Moth	S3	G3G4		
Catocala pretiosa texarkana	Precious Underwing Moth	S3?	G4T4		
Ceratopsyche piatrix	A Net-spinning Caddisfly	S4	G4		
Chalybion zimmermanni zimmermanni	A Blue Mud Dauber	SU	GNRTNR		
Conocephalus saltans	Prairie Meadow Katydid	S3	G5		
Cylindera celeripes	Swift Tiger Beetle	S 1	G2G4		
Deinops is virginiana	A Staphylinid Beetle	SU	GNR		
Derops divalis	A Staphylinid Beetle	S3	GNR		
Dianthidiumtexanum	A Leafcutter Bee	S1	GNR		
Dichagyris reliqua	A Noctuid Moth	S 1	G2G3		
Dromochrous pruinina	Loamy-ground Tiger Beetle	S1	G3G4		
Euphyes dukesi	Duke's Skipper	S 1	G3		
Formica creightoni	Creighton's Slavemaking Ant	S3	GNR		
Formica fossaceps	Haystack Thatching Ant	S1	GNR		
Formica querquetulana	Oak-grove Ant	S1	GNR		
Gennadota canadensis	A Staphylinid Beetle	SU	GNR		

SCIENTIFIC NAME	COMMON NAME	<u>SRANK</u>	<u>GRANK</u>	STATE STATUS	FEDERAL STATUS
INSECTS (Cont.)					
Glyphopsychemissouri	Missouri Glyphopsyche Caddisfly	S 1	Gl		
Gomphus fraternus	Midland Clubtail	SU	G5		
Gomphus ventricosus	Skillet Clubtail	SU	G3		
Gryllotalpa major	Prairie Mole Cricket	S 3	G3		
Habros celimorpha circumpicta johns onii	Saline Spring Tiger Beetle	S1	G5T5		
Hesperia ottoe	Ottoe Skipper	S 1	G3G4		
Hesperus stehri	A Staphylinid Beetle	SU	GNR		
Hydroperla fugitans	Austin Springfly	S 3	G3		
Inscudderia taxodii	Bald Cypress Katydid	S 1	GNR		
Is operla burksi	Banded Stripetail	S3	G4		
Isoperla longiseta	Plains Stripetail	SX	G5		
Lasia purpurata	Purple Small-headed Fly	SU	GNR		
Leptysma marginicollis	Cattail Toothpick Grasshopper	S2S3	G5		
Leucotrichia pictipes	A Micro Caddisfly	S3	G5		
Libellula auripennis	Golden-winged Skimmer	SU	G5		
Lordithon niger	A Staphylinid Beetle	S 3	GU		
Lytrosis permagnaria	Geometrid Moth	SU	G3G4		
Maccaffertiumbednariki	A Heptageniid Mayfly	S 3	G2G4		
Macropis steironematis	An Oil-collecting Bee	S1	GNR		
Melanoplus fasciatus	Huckleberry Grasshopper	S3	G5		
Melanoplus francoisensis	A Spur-throat Grasshopper	S1	GNR		
Melanoplus impudicus	Immodest Grasshopper	S 3	G4G5		
Melanoplus packardii	Packard's Grasshopper	S2	G5		
Melanoplus punctulatus griseus	Grizzly Grasshopper	SU	G4T4		
Melanoplus viridipes viridipes	Green-legged	S3	G4		
riemnopius vindipes vindipes	Grasshopper	55	0.		
Melis sodes intorta	A Callirhoe Bee	S 1	GNR		
Mermiria picta	Mermiria Grasshopper	S3	G5		
Merope tuber	A Meropid Scorpionfly	S 3	G3G5		
Metaleptea brevicornis	Short-horned Grasshopper	S4	G5		
Nehalennia gracilis	SphagnumSprite	S1?	G5		
Nehalennia irene	Sedge Sprite	S 1	G5		
Neoconocephalus exilis canorus	Slightly-musical Conehead Katydid	S3	GNR		
Neoconocephalus lyristes	Bog Conehead Katydid	S 1	GNR		
Neoperla carlsoni	Spiny Stone	S3?	G5		
Neotrichia kitae	Kite's Neotrichian Caddsifly	SU	GU		
Neotridactylus apicialis	Larger Pygmy Grasshopper	SU	GNR		
Nicrophorus americanus	American Burying Beetle	SH	G2G3	E	E
Ochrotrichia contorta	Contorted Ochrotrichian Micro Caddis fly	SU	G1G2		
Oecleus chrisjohni	A Cixiid Planthopper	SU	GNR		
Oncopodura hoffi	Hoff's Cave Springtail	S1S3	G1G2		

SCIENTIFIC NAME	COMMON NAME	<u>SRANK</u>	<u>GRANK</u>	STATE STATUS	FEDERAL STATUS
INSECTS (Cont.)					
Oxybleptes kiteleyi	A Staphylinid Beetle	SU	GNR		
Papaipema eryngii	Rattles nake-master Borer Moth	S3	G1G2		C
Papilio joanae	Ozark Woodland Swallowtail	SU	G3		
Pardalophora saussurei	A Glade Grasshopper	SU	G5		
Paroxya hoosieri	Hoosier Grasshopper	S 1	G5		
Pentacorasignoreti	A Shore Bug	S1	GNR		
Phoetaliotes nebrascensis	Large-headed Grasshopper	S 3	G5		
Phrixocnemis truculentus	Truculent Camel Cricket	SU	GNR		
Phyllobroticalengi	A Leaf Beetle	SU	GNR		
Phyllobroticanigritarsis	A Leaf Beetle	SU	GNR		
Phyllobroticaphysostegiae	A Leaf Beetle	S4?	GNR		
Polyergus longicornis	Long-horned Shining Amazon Ant	S1	GNR		
Polyergus montivagus	Foothills Shining Amazon Ant	S1	GNR		
Polyergus ruber	Ruby-red Shining Amazon Ant	S1	GNR		
Polyergus sanwaldi	Sanwald's Shining Amazon Ant	S1	GNR		
Prostoia similis	Longhorn Forestfly	S 3	G5		
Ps eudomasaris occidentalis	A Pollen Wasp	S3	GNR		
Ps eudosinella espana	Espana Cave Springtail	S 3	G2G3		
Ps inidia fenestralis	Sand Grasshopper	S2S3	G5		
Satyrodes appalachia leeuwi	Appalachian Eyed Brown	S 1	G4T4		
Sepedophilus campbelli	A Staphylinid Beetle	SU	GNR		
Serratella frisoni	Frison's Seratellan Mayfly	S2	G4		
Sinella avita	Avita Cave Springtail	SU	G3G4		
Sinella barri	Barr's Cave Springtail	SU	G5		
Somatochlora hineana	Hine's Emerald	S2	G2G3	E	E
Somatochlora ozarkensis	Ozark Emerald	SU	G3		
Somatochlora provocans	Treetop Emerald	S 1	G4		
Speyeria diana	Diana Fritillary	SA	G3G4		
Speyeria idalia	Regal Fritillary	S3	G3		
Stethophyma celatum	Sedge Grasshopper	S3	G4		
Stylurus intricatus	Brimstone Clubtail	S1S2	G4		
Stylurus notatus	Elusive Clubtail	S2S3	G3		
Telebasis byersi	Duckweed Firetail	S1	G5		
Telebasis salva	Desert Firetail	SU	G5		
Tettigidea armata	Spined Grouse Locust	S2S3	G5		
Tomocerus mis sus	Missus Cave Springtail	SU	G4		
Trimerotropis maritima	Seaside Grasshopper	S1	G5		
Xenochalepus potomaca	A Leaf Beetle	SU	GNR		
Xenotrechus condei	Northern Xenotrechus Cave Beetle	S1	G1G2		
Xenotrechus denticollis	Southern Xenotrechus Cave Beetle	S1	G1G2		

SCIENTIFIC NAME	COMMON NAME	<u>SRANK</u>	<u>GRANK</u>	STATE STATUS	FEDERAL STATUS
INSECTS (Cont.)					
Xylodromus capito Total Insect Records: 118	A Staphylinid Beetle	SU	GNR		
FISH					
Acipenser fulvescens	Lake Sturgeon	S1	G3G4	E	
Alosa alabamae	Alabama Shad	S2	G2G3		
Alos a chrysochloris	Skipjack Herring	SU	G5		
Ameiurus nebulosus	Brown Bullhead	S3?	G5		
Ammocrypta clara	Western Sand Darter	S2S3	G3		
Ammocrypta vivax	Scaly Sand Darter	S 3	G5		
Anguilla rostrata	American Eel	SU	G4		
Atractosteus spatula	Alligator Gar	S 1	G3G4		
Carpiodes velifer	Highfin Carpsucker	S2	G4G5		
Centrarchus macropterus	Flier	S3	G5		
Cottus specus	Grotto Sculpin	S 1	G2		E
Crystallaria as prella	Crystal Darter	S1	G3	Е	
Cyprinella camura	Bluntface Shiner	S2S3	G5		
Erimyzon sucetta	Lake Chubsucker	S2	G5		
Etheostoma cragini	Arkans as Darter	S3S4	G3G4		
Etheostoma euzonum erizonum	Current Saddled Darter	S 3	G3G4T3T4		
Etheostoma euzonum euzonum	Arkans as Saddled Darter	S2	G3G4T3T4		
Etheostoma fusiforme	Swamp Darter	S1	G5	Е	
Etheostoma histrio	Harlequin Darter	S2	G5	Е	
Etheostoma microperca	Least Darter	S2	G5		
Etheostoma nianguae	Niangua Darter	S2	G2	Е	T
Etheostoma parvipinne	Goldstripe Darter	S1	G4G5	Е	
Etheostoma whipplei	Redfin Darter	S1	G4	Е	
Forbesichthys agassizii	Spring Cavefish	S1	G4	E	
Fundulus chrysotus	Golden Topminnow	S1	G5		
Fundulus dispar	Starhead Topminnow	S2	G4		
Fundulus kansae	Northern Plains Killifish	S2	G5		
Fundulus sciadicus	Plains Topminnow	S3	G4		
Hybognathus argyritis	Western Silvery Minnow	S2	G4		
Hybognathus hankinsoni	Brassy Minnow	S3	G5		
Hybognathus hayi	Cypress Minnow	S1	G4G5	Е	
Hybognathus nuchalis	Mississippi Silvery Minnow	S3S4	G5		
Hybognathus placitus	Plains Minnow	S2	G4		
Hybopsis amnis	Pallid Shiner	SX	G4		
Ichthyomyzon gagei	Southern Brook Lamprey	S2S3	G5		
Lepomis marginatus	Dollar Sunfish	S2	G5		
Lepomis symmetricus	BantamSunfish	S2	G5		
Lethenteron appendix	American Brook Lamprey	S2	G4		
Macrhybopsis gelida	Sturgeon Chub	S3	G3		
Mugil cephalus	Striped Mullet	SA	G5		
Notropis buchanani	Ghost Shiner	S2	G5		
Notropis chalybaeus	Ironcolor Shiner	S1	G4		

SCIENTIFIC NAME	COMMON NAME	<u>SRANK</u>	<u>GRANK</u>	STATE STATUS	FEDERAL STATUS
FISH (Cont.)					
Notropis heterolepis	Blacknose Shiner	S2	G5		
Notropis maculatus	Taillight Shiner	S 1	G5	E	
Notropis ozarcanus	Ozark Shiner	S2	G3		
Notropis sabinae	Sabine Shiner	S1	G4	E	
Notropis texanus	Weed Shiner	S3	G5		
Notropis topeka	Topeka Shiner	S1	G3	E	E
Noturus eleutherus	Mountain Madtom	S1S2	G4	E	
Noturus flavater	Checkered Madtom	S3S4	G3G4		
Noturus placidus	Neos ho Madtom	S1	G2	E	T
Opsopoeodus emiliae	PugnoseMinnow	S4	G5		
Percina copelandi	Channel Darter	S3	G4		
Percina cymatotaenia	Bluestripe Darter	S2	G2		
Percina nasuta	Longnose Darter	S1	G3	E	
Percina shumardi	River Darter	S3	G5		
Percina uranidea	Stargazing Darter	S2	G3		
Percops is omis comay cus	Trout-perch	S1?	G5		
Pimephales tenellus parviceps	Eastern Slim Minnow	S2S3	G4T2T3		
Pimephales tenellus tenellus	Western Slim Minnow	S3	G4T4	_	
Platygobio gracilis	Flathead Chub	S1	G5	E	
Scaphirhynchus albus	Pallid Sturgeon	S1	G2	E	E
Troglichthysrosae	Ozark Cavefish	S2	G	E	T
Typhlichthys eigenmanni	Salem Plateau Cavefish	S2S3	GNR C5	Е	
Umbra limi Total Fish Records: 65	Central Mudminnow	S1	G5	E	
Total Fish Records: 05					
AMPHIBIANS					
Ambystoma annulatum	Ringed Salamander	S3	G4		
Ambystoma talpoideum	Mole Salamander	S2	G5		
Ambystoma tigrinum	Eastern Tiger Salamander	S3	G5		
Amphiuma tridacty lum	Three-toed Amphiuma	S2	G5		
Anaxyrus cognatus	Great Plains Toad	S3	G5		
Cryptobranchus alleganiensis alleganiensis	Eastern Hellbender	S1	G3G4T3T4	E	PE
Cryptobranchus alleganiensis bishopi	Ozark Hellbender	S1	G3G4T2Q	E	E
Eurycea spelaea	Grotto Salamander	S2S3	G4		
Hemidactyliumscutatum	Four-toed Salamander	S4	G5		
Lithobates areolatus circulosus	Northern Crawfish Frog	S3	G4T4		
Lithobates pipiens	Northern Leopard Frog	S2	G5		
Lithobates sylvaticus	Wood Frog	S3	G5		
Pseudacris illinoensis	Illinois Chorus Frog	S2	G3		
Scaphiopus holbrookii	Eastern Spadefoot	S2	G5		
Total Amphibian Records: 14					
REPTILES					
Cemophora coccinea copei	Northern Scarletsnake	S2S3	G5T5		
Clonophis kirtlandii	Kirtland's Snake	S 1	G2		
Crotaphytus collaris	Eastern Collared Lizard	S4	G5		

SCIENTIFIC NAME	COMMON NAME	<u>SRANK</u>	<u>GRANK</u>	STATE STATUS	FEDERAL STATUS
REPTILES (Cont.)					
Deirochelys reticularia miaria	Western Chicken Turtle	S1	G5T5	E	
Emy doidea blandingii	Blanding's Turtle	S1	G4	E	
Farancia abacura reinwardtii	Western Mudsnake	S2	G5T5		
Heterodongloydi	Dusty Hog-nosed Snake	S1	G3G4Q		
Heterodonnasicus	Plains Hog-nosed Snake	SX	G5		
Kinosternon flavescens	Yellow Mud Turtle	S 1	G5	E	
Macrochelys temminckii	Alligator Snapping Turtle	S2	G3G4		
Nerodia cyclopion	Mississippi Green Watersnake	SX	G5	Е	
Opheodrys vernalis	Smooth Greensnake	SX	G5		
Pantherophis rams potti	Western Foxsnake	S1	G5		
Pantherophis vulpinus	Eastern Foxsnake	S1	G5		
Phrynosoma cornutum	Texas Horned Lizard	S2	G4G5		
Pituophis catenifer sayi	Bullsnake	SU	G5T5		
Plestiodonobsoletus	Great Plains Skink	S2	G5		
Plestiodon septentrionalis obtusirostris	Southern Prairie Skink	S 3	G5T5		
Plestiodon septentrionalis septentrionalis	Northern Prairie Skink	S3	G5T5		
Sistrurus catenatus	Eastern Massasauga	SX	G3	E	T
Sistrurus tergeminus tergeminus Total Reptile Records: 21	Prairie Massasauga	S1	G3G4TNR	E	
BIRDS (See Appendix A for Tra	acking Criteria)				
Accipiter striatus	Sharp-shinned Hawk	S2	G5		
Anhingaanhinga	Anhinga	SU	G5		
Antigone canadensis	Sandhill Crane	S1	G5		
Ardea alba	Great Egret	S3	G5		
Asio flammeus	Short-eared Owl	S2	G5		
Asio otus	Long-eared Owl	SU	G5		
Athenecunicularia	Burrowing Owl	SX	G4		
Bonasaumbellus	Ruffed Grouse	SU	G5		
Botaurus lentiginosus	American Bittern	S1	G5	Е	
Buteo swainsoni	Swainson's Hawk	S2	G5	2	
Campephilus principalis	Ivory-billed Woodpecker	SX	G1		Е
Certhia americana	Brown Creeper	SU	G5		
Chlidonias niger	Black Tern	SX	G4G5		
Circus hudsonius	Northern Harrier	S2	G5	Е	
Cistothorus palustris	Marsh Wren	S3	G5	_	
Coragyps atratus	Black Vulture	S3	G5		
Corvus corax	Common Raven	SX	G5		
Coturnicops noveboracensis	Yellow Rail	SU	G4		
Cygnus buccinator	Trumpeter Swan	S1	G4		
Egretta caerulea	Little Blue Heron	S3	G5		
Egretta thula	Snowy Egret	S1	G5	Е	
Elanoides forficatus	Swallow-tailed Kite	SX	G5		
Empidonax minimus	Least Flycatcher	SU	G5		
Falco peregrinus	Peregrine Falcon	S1	G4	E	

SCIENTIFIC NAME	COMMON NAME	<u>SRANK</u>	<u>GRANK</u>	STATE STATUS	FEDERAL STATUS
BIRDS (Cont.)					
Gallinula galeata	Common Gallinule	S2	G5		
Geococcyxcalifornianus	Greater Roadrunner	S3	G5		
Haliaeetus leucocephalus	Bald Eagle	S3	G5		
Ictinia mis sis sippiensis	Mississippi Kite	S3	G5		
Ixobry chus exilis	Least Bittern	S3	G5		
Lanius ludovicianus	Loggerhead Shrike	S2	G4		
Laterallus jamaicensis	Black Rail	SU	G3G4		
Limnothlypis swainsonii	Swains on's Warbler	S2	G4	E	
Nycticoraxnycticorax	Black-crowned Night- heron	S3	C5		
Pandion haliaetus	Osprey	S2	G5		
Passerinaciris	Painted Bunting	S3	G5		
Peucaea aestivalis	Bachman's Sparrow	S1	G3	E	
Picoides borealis	Red-cockaded Woodpecker	SX	G3		E
Porzana carolina	Sora	S2	G5		
Rallus elegans	King Rail	S1	G4	E	
Rallus limicola	Virginia Rail	S2	G5		
Setophagacerulea	Cerulean Warbler	S2S3	G4		
Setophagapensylvanica	Chestnut-sided Warbler	SU	G5		
Setophagavirens	Black-throated Green Warbler	SU	G5		
Sitta pusilla	Brown-headed Nuthatch	SX	G4		
Spinus pinus	Pine Sis kin	SU	G5		
Sterna antillarumathalassos	Interior Least Tern	S1	G4T2Q	E	E
Tympanuchus cupido	Greater Prairie-chicken	S 1	G4	E	
Tyto alba	Barn Owl	S3	G5		
Vermivora bachmanii	Bachman's Warbler	SX	GH		E
Xanthocephalus xanthocephalus Total BirdRecords: 50	Yellow-headed Blackbird	S3	G5		
MAMMALS					
Bis on bis on	American Bison	SX	G4		
Canis lupus	Gray Wolf	SX	G5		E
Canis rufus	Red Wolf	SX	G1Q		E
Cervus elaphus	Elk or Wapiti	S?	G5		
Corynorhinus rafinesquii	Rafines que's Big-eared Bat	S1	G3G4		
Corynorhinus townsendii ingens	Ozark Big-eared Bat	SX	G3G4T1	E	E
Ictidomys tridecemlineatus	Thirteen-lined Ground Squirrel	S2	G5		
Lasionycteris noctivagans	Silver-haired Bat	S 3	G3G4		
Lasiurus cinereus	Hoary Bat	S3	G3G4		
Lasiurus seminolus	Seminole Bat	SA	G5		
Lepus californicus	Black-tailed Jackrabbit	S1	G5	E	
Lepus townsendii	White-tailed Jackrabbit	SX	G5		
Mustela frenata	Long-tailed Weasel	S3	G5		
Mustelanivalis	Least Weasel	S3	G5		

SCIENTIFIC NAME	COMMON NAME	<u>SRANK</u>	<u>GRANK</u>	STATE STATUS	FEDERAL STATUS
MAMMALS (Cont.)					
Myotis austroriparius	Southeastern Myotis	S 1	G4		
Myotis grisescens	Gray Myotis	S3	G4	E	E
Myotis leibii	Eastern Small-footed Myotis	S2	G4		
Myotis lucifugus	Little Brown Myotis	S2	G3		
Myotis septentrionalis	Northern Long-eared Myotis	S1	G1G2	E	T
Myotis sodalis	Indiana Myotis	S 1	G2	E	E
Ochrotomys nuttalli	Golden Mouse	S3	G5		
Oryzomys palustris	Marsh Rice Rat	SU	G5		
Perimyotis subflavus	Tri-colored Bat	S2	G2G3		
Perognathus flavescens	Plains Pocket Mouse	S1	G5		
Peromyscus gossypinus	Cotton Mouse	S2	G5		
Poliocitellus franklinii	Franklin's Ground Squirrel	S2S3	C5		
Puma concolor	Mountain Lion	SX	G5		
Reithrodontomys montanus	Plains Harvest Mouse	S2	G5		
Spilogale putorius interrupta	Plains Spotted Skunk	S1	G4T4	E	
Sylvilagus aquaticus	Swamp Rabbit	S2	G5		
Tadarida brasiliensis	Brazilian Free-tailed Bat	SA	G5		
Taxidea taxus	American Badger	S3	G5		

Total Mammal Records: 32

Total Records Processed: 1160

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FOR MORE INFORMATION

MDC collects and manages information on the location and status of species and natural communities of conservation concern throughout the state. The Missouri Natural Heritage Database is a repository for this information.

If you have information on the location or questions about the status of any element on this *Checklist*, please contact:

Natural Heritage Coordinator Missouri Department of Conservation P.O. Box 180 2901 W Truman Blvd Jefferson City, MO 65109 (573) 522-4115

If you are requesting information about any Element on this *Checklist* for the purposes of environmental review, please write:

Resource Science Division Missouri Department of Conservation P.O. Box 180 Jefferson City, MO 65109

You can also conduct an online Natural Heritage Review by submitting your information to https://naturalheritagereview.mdc.mo.gov/

WEBPAGE

This checklist is updated annually. The most current version is always available by contacting MDC, Resource Science Division. *Checklist* information is also available on MDC's website: http://mdc.mo.gov/145.

CITATION

An appropriate citation for this edition of the *Checklist* is:

Missouri Natural Heritage Program. 2020. Missouri species and communities of conservation concern checklist. Missouri Department of Conservation. Jefferson City, Missouri. pp. 53.

APPENDIX A BIRD SPECIES TRACKED IN MONHP AND THEIR CRITERIA FOR EORS

Species (ranks)	MDC Regions*	Criteria** (safe dates), comments
Anseriformes (Ducks, geese, swans)		
Trumpeter Swan (S1, G4)	All (NE, NW)	1
Galliformes (chicken-like birds)		
Ruffed Grouse (SU, G5)	CN, OZ, SL, SE	1
Greater Prairie-chicken (S1, G4)	SW, KC, NW, NE	Anytime observed
<i> \</i>		•
Suliformes (anhinga)		
Anhinga (SU, G5)	SE	1
Pelecaniformes (herons, egrets, storks,	ibises)	
American Bittern (S1, G5)	All	1- extensive emergent marshes
Least Bittern (S3, G5)	All	1,2 (5/25-8/1)
Great Egret (S3, G5)	All (SE)	1
Snowy Egret (S1, G5)	SE	1
Little Blue Heron (S3, G5)	SE, SL	1
Black-crowned Night-Heron (S3, G5)	All (SE)	1
Accipitriformes (hawks, eagles, kites, v		
Black Vulture (S3, G5)	OZ, SE	1
Osprey (S2, G5)	All (confirmed NE, SW)	1- Any large open body of water
Swallow-tailed Kite (SX, G5)	SE	1- Formerly SE, large rivers
Mississippi Kite (S3, G5)	All (SE, SL, NE)	1- Expanding range
Bald Eagle (S3, G5)	All	1- Any large open body of water
Northern Harrier (S2, G5)	All (except OZ, SE)	1
Sharp-shinned Hawk (S2, G5)	All	1
Swainson's Hawk (S2, G5)	SW, KC	1
Gruiformes (rails, cranes)		
Yellow Rail (SU, G4)	All	Anytime observed (migrant)
Black Rail (SU, G3G4)	All	Anytime observed, large marshes
King Rail (S1, G4)	All (SE, SL, NE)	1,2 (5/30-7/31)
Virginia Rail (S2, G5)	All	1,2 (5/15-8/1)
Sora (S2, G5)	All	1,2 (5/30-7/31)
Common Gallinule (S2, G5)	All (except OZ)	1,2 (5/30-8/31)
Sandhill Crane (S1, G5)	NE, NW, CN, SL	1
Charadriiformes (gulls, terns, shorebir		
Interior Least Tern (S1, G4T2Q)	SE	1- Formerly along MS, MO Rivers
Black Tern (SX, G4G5)	NW	1
Cuculiformes (cuckoos, roadrunners)		
Greater Roadrunner (S3, G5)	SW, OZ	1
Greater Roadrunner (53, G3)	SW, OZ	1
Strigiformes (Owls)		
Barn Owl (S3, G5)	All (SE)	1,2 (5/25-8/15)
Burrowing Owl (SX, G4)	NW	1
Long-eared Owl (SU, G5)	All	1-Forests, dense thickets near water
Short-eared Owl (S2, G5)	SW, NW, NE, KC	1,2 (5/1-8/31)

Species (ranks) Piciformes (Woodpeckers)	MDC Regions*	Criteria** (safe dates), comments
Red-cockaded Woodpecker (SX, G3)	OZ, SE	Anytime observed
Ivory-billed Woodpecker (SX, G1)	All	Anytime observed Anytime observed
Tvory office (voodpecker (571, G1)	7111	Tiny time observed
Falconiformes (falcons)		
Peregrine Falcon (S1, G4)	SL, KC	1- Formerly along MO river bluffs
Passeriformes (perching birds)		
Least Flycatcher (SU, G5)	NE, NW	1,2 (5/27-7/7)
Loggerhead Shrike (S2, G4)	All (SW, KC, NW)	1,2 (4/20-7/20)
Common Raven (SX, G5)	All	Anytime observed
Brown-headed Nuthatch (SX, G4)	OZ, SE	Anytime observed
Brown Creeper (SU, G5)	SL, NE, OZ	1,2 (5/15-9/15)
Marsh Wren (S3, G5)	All (except SW, SE, OZ)	1,2 (5/25-8/25)
Bachman's Warbler (SX, GH)	All	Anytime observed
Swainson's Warbler (S2, G4)	SE, OZ, SW	1,2 (5/25-8/15)
Cerulean Warbler (S2S3, G4)	All (OZ)	1,2 (6/1-8/10)
Chestnut-sided Warbler (SU, G5)	All	1,2 (6/1-8/10)
Black-throated Green Warbler (SU, G5)	SE	1
Bachman's Sparrow (S1, G3)	OZ, SW, SE	1,2 (6/1-8/15)
Painted Bunting (S3, G5)	SW, OZ	1,2 (5/25-8/1)
Yellow-headed Blackbird (S3, G5)	NW (possible anywhere)	1

*MDC Regions (where species most likely to be recorded)

CN - Central	KC - Kansas City
NE - Northeast	NW - Northwest
OZ - Ozark	SL - St. Louis
SE - Southeast	SW - Southwest



1

**Criteria

Pine Siskin (SU, G5)

- 1. Confirmed breeding. Evidenced one or more of the following:
 - Nest building (except wrens and woodpeckers)
 - Nest with egg(s) or young (seen or heard)
 - Used nest or eggshells
 - Physiological evidence of breeding based upon bird in hand (e.g. brood patch)

All

- Distraction display or injury feigning
- Recently fledged young
- Adults entering or leaving nest site in circumstances indicating nesting
- Adult carrying fecal sac
- Adult carrying food
- 2. Probable breeding (valid only between safe dates)
 - Male and female seen together (not part of a flock)
 - Bird holding territory
 - Seven or more singing males detected in one visit
 - Courtship or copulation
 - Visiting probable nest site
 - Agitated behavior or anxiety call (not provoked by observer)
 - Nest building by wrens or woodpeckers
- 3. Possible breeding (valid only between safe dates)
 - Species heard or seen in breeding habitat
 - Species heard or seen but not in breeding habitat

PLANTS OF CONSERVATION CONCERN REPORTING FORM

Complete relevant fields for which you have information

		J - 1 - 1 - 1 - 1			
HERITAGE BIOLOGIST AND LAB					
EO Report Status (check one): New					
EO_ID:EONUM:	ELCODE:	Fed Status:	State Stat	us:SRANK	:
Heritage mapper:	Heritage map QC'er:		Heritage Bio	logist:	
Heritage mapping date:	Heritage map QC date:_		Heritage Bio	logist Date:	
	T COLUMN				
ELEMENT IDENTIFICATION and		NT			
Scientific Name:					
Survey Site Name:					
Directions to the survey site:					
USGS Quadrangle name(s):	G	0	·		
Township: Range: 15	Section:	Quart	ter Sections:_		
GPS should be in NAD83, zone 15.	If not, indicate: NAD	Zone			
UTM: Easting (X)	OR: Latitude	e (N)			
	Longitu				
Explanation of possible GPS unit	inaccuracy:				
MAPPING		41 1 1 C'	• e . NT	. 1	
Attach a map with the species' locati			le format. No	county maps, pie	ase.
Person who marked the map (last na	ame, first name):	·		T. (OD	
Locational Uncertainty (buffer radiu	is): The mapped location is with	ıınwieters	S OK	_Feet_OR	Nines
ELEMENT OCCURRENCE SURV					
Survey Date (yyyy-mm-dd):		(last name, first na	me):		
Abundance (actual and/or estimated in					
Condition (plants sterile, in bud, flow					
Collation (planto storite, in osa, 110	of the fitting of discussions,	producion, or once.	cs)•		
Person hours searching for Element	t•				
Specimen or photograph taken (coll	lector/photographer, collection	# vear acquisition	number and re	enository:	
pheermon or broad-nate of the	process process and the second	', J , 1		- pesitor):	
General Habitat Description:					
CONSERVATION INFORMATION	1				
Managed Area Name(s):					
Is EO completely within boundary	ries of Managed Area(s)? Yes	OR Partially			
Owner(s):					
Owner Comments (include address/p	ohone number and other relevar	t comments):			
·		·			
Management Comments (needs for a	management, protection, monitor	oring, and/or resear	rch):		
			, _		
General Comments (include any asso	ociated species and/or any other	relevant informati	on):		
· · · · · · · · · · · · · · · · · · ·					
Form completed by (last name, first					
·	assistance in helping maintair		_		
	Science Division – Heritage Bo			onservation,	
P.O. Box	x 180, Jefferson City, Missouri 6	55102. (573) 522-4	1115		

HERITAGE BIOLOGIST USE ONLY		- ~ .			
EO Rank: Origi	n Subrank: EO I	Rank Comments:			
Reference(s) (include contact information	ation for any new references):_				

DJB 2011-09-27

Version Author (last name, first name):

ANIMALS OF CONSERVATION CONCERN REPORTING FORM

Complete relevant fields for which you have information

HERITAGE BIOLOGIST AND LAB USE ONLY EO Report Status (check one): New
ELEMENT IDENTIFICATION and LOCATION Scientific Name: Common Name: Survey Site Name: Directions to the survey site:
County(ies): USGS Quadrangle name(s): Township: Range: Section: Quarter Sections: GPS should be in NAD83, zone 15. If not, indicate: NAD Zone UTM: Easting (X) Northing (Y) Explanation of possible GPS unit inaccuracy: Explanation of possible GPS unit inaccuracy:
MAPPING Attach a map with the species' location clearly marked in hard copy, digital, or shapefile format. No county maps, please. Person who marked the map (last name, first name): Locational Uncertainty (buffer radius): The mapped location is withinMeters ORFeet ORMiles
ELEMENT OCCURRENCE SURVEY INFORMATION Survey Date (yyyy-mm-dd):Observer(s) (last name, first name): Abundance (actual and/or estimated number observed): Condition (evidence of reproduction, disease, predation, injury, etc. For cave species, indicate hibernaculum, maternity, etc.):
External Measurements: Person hours searching for Element: Sampling Methodology (traps, seining, call count, etc.):
Specimen or photograph taken (collector/photographer, collection #, year, acquisition number and repository: General Habitat Description:
CONSERVATION INFORMATION Managed Area Name(s): Is EO completely within boundaries of Managed Area(s)? Yes OR Partially Owner(s): Owner Comments (include address/phone number and other relevant comments): Management Comments (needs for management, protection, monitoring, and/or research):
General Comments (include any associated species and/or any other relevant information): Form completed by (last name, first name): Date:
Thank you for your assistance in helping maintain the Missouri Natural Heritage Program. Return to: Resource Science Division – Heritage Zoologist, Missouri Department of Conservation, 3500 East Gans Road, Columbia, Missouri 65201. (573) 815-7900
HERITAGE BIOLOGIST USE ONLY EO Rank: Origin Subrank: EO Rank Comments:
Bat Biological Use: Reference(s) (include contact information for any new references): Version Author (last name):

TERRESTRIAL NATURAL COMMUNITY REPORTING FORM

Complete relevant fields for which you have information

HERITAGE BIOLOGIST AND LAB USI		Update without mapping		
		DDE: Gelcode Conf. Level: 1 2 3		
Heritage mapper:	Heritage map QC'er:	Heritage Biologist:		
Heritage mapping date:	Heritage map QC date:	Heritage Biologist Date:		
County(ies):	Section: ot, indicate: NAD OR: Latitude (N) Longitude (W)			
Attach a map with the natural comm. local Person who marked the map (last name,	first name):	igital, or shapefile format. No county maps, please. Meters ORFeet ORMiles		
Plant species composition (5-10 dominant or characteristic plant taxa by scientific name): General Habitat Description (describe substrate, topography and vegetation structure including acreage. E.g., "Glade system with three openings of 1, 5, and 10 acres." If part of a natural community complex, describe what percentage of the mapped polygon is made up of this EO type. E.g., "30% of a complex with wet-prairie and freshwater marsh."): Community Significance (circle one): Significant Exceptional Notable EO Rank: Origin Subrank: EO Rank Comments (describe ecological integrity; i.e., resemblance to presettlement condition, lack of exotic species, presence of conservative species, floristic quality index values, etc.):				
CONSERVATION INFORMATION				
Managed Area Name(s): Is EO completely within boundaries Owner(s):				
Owner Comments (include address/phon	e number and other relevant comme	nts):		
Management Comments (needs for mana	agement, protection, monitoring, and	d/or research):		
General Comments (include any associat	red species and/or any other relevant	information):		
Form completed by (last name, first name	e) :			
Thank you for your assistance in helping maintain the Missouri Natural Heritage Program. Return to: Wildlife Division – Heritage Ecologist, Missouri Department of Conservation, P.O. Box 180, Jefferson City, Missouri 65102. (573) 522-4115				
HERITAGE RIOLOGIST USE ONLY				

DJB 2011-09-27

Reference(s) (include contact information for any new references):_

Version Author (last name, first name):

AQUATIC NATURAL COMMUNITY REPORTING FORM

Complete relevant fields for which you have information

HERITAGE BIOLOGIST			ng Update without mapping	
EO ID:	EONUM:	ELCODE:	opeate without mapping	
Heritage mapper:		_ Heritage map QC'er:	Heritage Biologist:	
Heritage mapping date:_		_ Heritage map QC date:	Heritage Biologist Date:	
Survey Site Name: Directions to the survey County(ies):	unity Name/T	ype:		
Townshin	Range:	Section:	Quarter Sections:	
GPS should be in NAD8	Kange 3. zone 15. If	not, indicate: NAD	Zone	
UTM: Easting (X)	5, 20HC 15. H	OR: Latitude (1	Zone N)	
Northing (Y)		Longitude	(W)	
Explanation of possib	le GPS unit in	accuracy:		
MAPPING Attach a map with the natural comm. location clearly marked in hard copy, digital, or shapefile format. No county maps, please. Person who marked the map (last name, first name): ELEMENT OCCURRENCE SURVEY INFORMATION				
Survey Date (yyyy-mm-dd): Observer(s) (last name, first name): Aquatic assemblage (5-10 dominant or characteristic fish and/or aquatic invertebrate taxa by scientific name):				
General Habitat Description (describe stream order, miles to headwaters, riparian corridor condition, composition of riffles and pools, and other physical factors):				
Community Significance (circle one): Significant Exceptional Notable EO Rank: Origin Subrank: EO Rank Comments (describe ecological integrity; i.e., resemblance to presettlement condition, lack of exotic species, presence of conservative species, biologic integrity index values, etc.):				
CONSERVATION INFORMATION Managed Area Name(s): Is EO completely within boundaries of Managed Area(s)?: Yes OR Partially Owner(s):				
Owner Comments (include address/phone number and other relevant comments):				
Management Comments (needs for management, protection, monitoring, and/or research; include RAM monitoring site number):				
General Comments (incl	ude any associa	ated species and/or any other rel	levant information):	
Form completed by (last	name, first nar	me):	Date:	
Thank you for your assistance in helping maintain the Missouri Natural Heritage Program.				

Return to: Resource Science Division – Heritage Coordinator, Missouri Department of Conservation, P.O. Box 180, Jefferson City, Missouri 65102. (573) 522-4115

HERITAGE BIOLOGIST USE ONLY	
Reference(s) (include contact information	1 for any new references):
Version Author (last name, first name):	